

## Safety Data Sheet

### ASTRON HLP 100

Revision date: 12.05.2021

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

##### 1.1. Product identifier

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

###### Use of the substance/mixture

hydraulic oil

###### Uses advised against

No information available.

##### 1.3. Details of the supplier of the safety data sheet

|                         |                                    |                         |
|-------------------------|------------------------------------|-------------------------|
| Company name:           | Duran Lubricants & Chemicals GmbH  |                         |
| Street:                 | Rodderheide 3-7                    |                         |
| Place:                  | D-33824 Werther                    |                         |
| Telephone:              | +49 (0)5203-901510                 | Fax: +49 (0)5203-901515 |
| e-mail:                 | info@durand-oil.com                |                         |
| Internet:               | www.fosser.de                      |                         |
| Responsible Department: | Produktsicherheit / Product Safety |                         |
|                         | info@durand-oil.com                |                         |

##### 1.4. Emergency telephone number:

Giftinformationszentrum Nord  
(Göttingen)+49 (0)551/19240

#### SECTION 2: Hazards identification

##### 2.1. Classification of the substance or mixture

###### Regulation (EC) No. 1272/2008

This mixture is not classified as hazardous in accordance with Regulation (EC) No. 1272/2008.

##### 2.2. Label elements

###### Additional advice on labelling

According to EC directives or the corresponding national regulations the product does not have to be labelled.

##### 2.3. Other hazards

No information available.

#### SECTION 3: Composition/information on ingredients

##### 3.2. Mixtures

###### Chemical characterization

Mineral oil, Additive

###### Hazardous components

| CAS No   | Chemical name                                                     |          |                  | Quantity       |
|----------|-------------------------------------------------------------------|----------|------------------|----------------|
|          | EC No                                                             | Index No | REACH No         |                |
|          | GHS Classification                                                |          |                  |                |
| 128-39-2 | 2,6-di-tert-butylphenol                                           |          |                  | 0,1 - < 0,25 % |
|          | 204-884-0                                                         |          | 01-2119480422-43 |                |
|          | Skin Irrit. 2, Aquatic Acute 1, Aquatic Chronic 1; H315 H400 H410 |          |                  |                |

Full text of H and EUH statements: see section 16.

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#### Specific Conc. Limits, M-factors and ATE

| CAS No   | EC No     | Chemical name                            | Quantity       |
|----------|-----------|------------------------------------------|----------------|
|          |           | Specific Conc. Limits, M-factors and ATE |                |
| 128-39-2 | 204-884-0 | 2,6-di-tert-butylphenol                  | 0,1 - < 0,25 % |
|          |           | oral: LD50 = > 5000 mg/kg                |                |

#### Further Information

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII. This mixture contains no substances of very high concern (SVHC) which are included in the Candidate List according to Article 59 of REACH.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

##### General information

Remove affected person from the danger area and lay down.  
In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

##### After inhalation

Provide fresh air. Call a doctor if you feel unwell.

##### After contact with skin

After contact with skin, wash immediately with plenty of water and soap.  
Take off contaminated clothing and wash it before reuse.  
In case of skin irritation, consult a physician.

##### After contact with eyes

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

##### After ingestion

Rinse mouth thoroughly with water.  
Let water be drunk in little sips (dilution effect).  
Do NOT induce vomiting.  
In all cases of doubt, or when symptoms persist, seek medical advice.

#### 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

Treat symptomatically.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

##### Suitable extinguishing media

Use water spray jet to protect personnel and to cool endangered containers.  
Co-ordinate fire-fighting measures to the fire surroundings.

- Water spray jet
- Foam
- Carbon dioxide (CO<sub>2</sub>).
- Extinguishing powder

##### Unsuitable extinguishing media

Full water jet

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#### **5.2. Special hazards arising from the substance or mixture**

Formation of toxic gases is possible during heating or in case of fire.

In case of fire may be liberated:

- Nitrogen oxides (NO<sub>x</sub>)
- Carbon monoxide (CO)
- Carbon dioxide (CO<sub>2</sub>).
- Sulphur dioxide (SO<sub>2</sub>)
- Pyrolysis products, toxic

#### **5.3. Advice for firefighters**

In case of fire: Wear self-contained breathing apparatus. Use of protective clothing

In case of fire and/or explosion do not breathe fumes.

#### **Additional information**

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

### **SECTION 6: Accidental release measures**

#### **6.1. Personal precautions, protective equipment and emergency procedures**

##### **General measures**

Keep people at a distance and stay on the windward side.

Special danger of slipping by leaking/spilling product.

##### **For non-emergency personnel**

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

#### **6.2. Environmental precautions**

Do not allow to enter into surface water or drains.

Do not allow to enter into soil/subsoil.

Prevent spread over a wide area (e.g. by containment or oil barriers).

#### **6.3. Methods and material for containment and cleaning up**

##### **For containment**

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

##### **For cleaning up**

Clean contaminated articles and floor according to the environmental legislation.

Remove from the water surface (e.g. skimming, sucking).

#### **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**

##### **Advice on safe handling**

Avoid formation of oil dust.

Use personal protection equipment.

Do not put any product-impregnated cleaning rags into your trouser pockets.

Clear spills immediately.

##### **Advice on protection against fire and explosion**

No special fire protection measures are necessary.

Take precautionary measures against static discharges.

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Keep away from sources of ignition - No smoking.

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

##### **Requirements for storage rooms and vessels**

Keep only in the original container in a cool, well-ventilated place.

Keep container tightly closed.

Floors should be impervious, resistant to liquids and easy to clean.

##### **Hints on joint storage**

Do not store together with:

- Materials capable of ignition under almost all normal temperature conditions
- Explosives
- Radioactive substances
- Infectious substances

##### **Further information on storage conditions**

Note Regulation on facilities for the storage, filling and handling water-polluting substances. ...

#### **7.3. Specific end use(s)**

hydraulic oil

### **SECTION 8: Exposure controls/personal protection**

#### **8.1. Control parameters**

##### **DNEL/DMEL values**

| CAS No                   | Substance               |                |          |                    |
|--------------------------|-------------------------|----------------|----------|--------------------|
| DNEL type                |                         | Exposure route | Effect   | Value              |
| 128-39-2                 | 2,6-di-tert-butylphenol |                |          |                    |
| Worker DNEL, long-term   |                         | inhalation     | systemic | 70,61 mg/m³        |
| Worker DNEL, long-term   |                         | dermal         | systemic | 11,25 mg/kg bw/day |
| Consumer DNEL, long-term |                         | inhalation     | systemic | 20,9 mg/m³         |
| Consumer DNEL, long-term |                         | dermal         | systemic | 6,75 mg/kg bw/day  |
| Consumer DNEL, long-term |                         | oral           | systemic | 6,75 mg/kg bw/day  |

##### **PNEC values**

| CAS No                                           | Substance               |  |
|--------------------------------------------------|-------------------------|--|
| Environmental compartment                        | Value                   |  |
| 128-39-2                                         | 2,6-di-tert-butylphenol |  |
| Freshwater                                       | 0,001 mg/l              |  |
| Freshwater (intermittent releases)               | 0,004 mg/l              |  |
| Marine water                                     | 0 mg/l                  |  |
| Freshwater sediment                              | 0,317 mg/kg             |  |
| Marine sediment                                  | 0,032 mg/kg             |  |
| Secondary poisoning                              | 60 mg/kg                |  |
| Micro-organisms in sewage treatment plants (STP) | 10 mg/l                 |  |
| Soil                                             | 0,697 mg/kg             |  |

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#### Additional advice on limit values

To date, no national critical limit values exist.

#### 8.2. Exposure controls



#### Appropriate engineering controls

Provide adequate ventilation as well as local exhaust at critical locations.

#### Protective and hygiene measures

Take off contaminated clothing and wash it before reuse.

Wash hands before breaks and after work.

When using do not eat, drink, smoke, sniff.

#### Eye/face protection

During filling, metering, mixing and sampling must be used:

Wear eye/face protection. DIN EN 166

#### Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

Recommended glove articles: EN ISO 374

Suitable material: NBR (Nitrile rubber)

Thickness of the glove material: 0,4 mm

Breakthrough times and swelling properties of the material must be taken into consideration. Breakthrough time: > 8h

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

#### Skin protection

Wear suitable protective clothing. DIN EN 14605

#### Respiratory protection

In case of inadequate ventilation wear respiratory protection. Combination filtering device Typ: A-P2

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

|                  |                            |
|------------------|----------------------------|
| Physical state:  | Liquid                     |
| Colour:          | light yellow - light brown |
| Odour:           | characteristic             |
| Odour threshold: | not determined             |

#### Test method

|           |                |
|-----------|----------------|
| pH-Value: | not determined |
|-----------|----------------|

#### Changes in the physical state

|                                                           |                 |
|-----------------------------------------------------------|-----------------|
| Melting point:                                            | not determined  |
| Boiling point or initial boiling point and boiling range: | > 320 °C        |
| Pour point:                                               | -24 °C ISO 3016 |

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Flash point: 240 °C DIN ISO 2592

#### Flammability

Solid/liquid: not applicable

Gas: not applicable

#### Explosive properties

Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

Lower explosion limits: 0,6 vol. %

Upper explosion limits: 6,5 vol. %

#### Self-ignition temperature

Solid: not applicable

Gas: not applicable

Decomposition temperature: not determined

#### Oxidizing properties

The product is not: oxidising.

Vapour pressure: not determined

Density (at 15 °C): 0,873 - 0,883 g/cm<sup>3</sup>

Water solubility: not determined

#### Solubility in other solvents

not determined

Partition coefficient n-octanol/water: not determined

Viscosity / kinematic:  
(at 40 °C) 98,9 mm<sup>2</sup>/s

Relative vapour density: not determined

Evaporation rate: not determined

#### 9.2. Other information

Solid content: not determined

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

#### 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

#### 10.3. Possibility of hazardous reactions

The formation of combustible vapours is possible at temperatures above: Flash point

Reaction with: Oxidizing agent

#### 10.4. Conditions to avoid

Avoid: Thermal decomposition

#### 10.5. Incompatible materials

Materials to avoid:

- Acids
- Reducing agent
- Oxidising agent

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#### **10.6. Hazardous decomposition products**

Hazardous combustion products:

- Carbon monoxide (CO)
- Carbon dioxide (CO<sub>2</sub>)
- Nitrogen oxides (NO<sub>x</sub>)

### **SECTION 11: Toxicological information**

#### **11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008**

##### **Acute toxicity**

Based on available data, the classification criteria are not met.

| CAS No   | Chemical name           |                   |         |                     |                    |
|----------|-------------------------|-------------------|---------|---------------------|--------------------|
|          | Exposure route          | Dose              | Species | Source              | Method             |
| 128-39-2 | 2,6-di-tert-butylphenol |                   |         |                     |                    |
|          | oral                    | LD50 > 5000 mg/kg | Rat     | Study report (1991) | OECD Guideline 401 |

##### **Irritation and corrosivity**

Based on available data, the classification criteria are not met.

##### **Sensitising effects**

Based on available data, the classification criteria are not met.

##### **Carcinogenic/mutagenic/toxic effects for reproduction**

Based on available data, the classification criteria are not met.

The product contains less than 3% DMSO extract (method IP346). A classification as a carcinogen with R45 is deleted. (Note L)

##### **STOT-single exposure**

Based on available data, the classification criteria are not met.

##### **STOT-repeated exposure**

Based on available data, the classification criteria are not met.

##### **Aspiration hazard**

Based on available data, the classification criteria are not met.

##### **Additional information on tests**

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

#### **11.2. Information on other hazards**

##### **Endocrine disrupting properties**

No information available.

### **SECTION 12: Ecological information**

#### **12.1. Toxicity**

The product is not: Ecotoxic.

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| CAS No   | Chemical name            |                 |           |                                                    |                            |                                          |
|----------|--------------------------|-----------------|-----------|----------------------------------------------------|----------------------------|------------------------------------------|
|          | Aquatic toxicity         | Dose            | [h]   [d] | Species                                            | Source                     | Method                                   |
| 128-39-2 | 2,6-di-tert-butylphenol  |                 |           |                                                    |                            |                                          |
|          | Acute fish toxicity      | LC50 1,4 mg/l   | 96 h      | Pimephales promelas                                | REACH Registration Dossier | OECD Guideline 204                       |
|          | Acute crustacea toxicity | EC50 0,45 mg/l  | 48 h      | Daphnia magna                                      | REACH Registration Dossier | other: US EPA TSCA as cited Fed. Registe |
|          | Crustacea toxicity       | NOEC 0,035 mg/l | 21 d      | Daphnia magna                                      | REACH Registration Dossier | OECD Guideline 211                       |
|          | Acute bacteria toxicity  | (> 1000 mg/l)   | 3 h       | a mixed population of activated sewage sludge micr | REACH Registration Dossier | OECD Guideline 209                       |

#### **12.2. Persistence and degradability**

Not readily biodegradable (according to OECD criteria)

#### **12.3. Bioaccumulative potential**

The product has not been tested.

#### **Partition coefficient n-octanol/water**

| CAS No   | Chemical name           | Log Pow |
|----------|-------------------------|---------|
| 128-39-2 | 2,6-di-tert-butylphenol | 4,5     |

#### **BCF**

| CAS No   | Chemical name           | BCF       | Species         | Source             |
|----------|-------------------------|-----------|-----------------|--------------------|
| 128-39-2 | 2,6-di-tert-butylphenol | 135 - 360 | Cyprinus carpio | Publication (1992) |

#### **12.4. Mobility in soil**

The product has not been tested.

#### **12.5. Results of PBT and vPvB assessment**

The product has not been tested.

#### **12.6. Endocrine disrupting properties**

No information available.

#### **12.7. Other adverse effects**

No information available.

### SECTION 13: Disposal considerations

#### **13.1. Waste treatment methods**

##### **Disposal recommendations**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation.

##### **Contaminated packaging**

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

### SECTION 14: Transport information

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#### Land transport (ADR/RID)

|                                          |                                                          |
|------------------------------------------|----------------------------------------------------------|
| <b>14.1. UN number:</b>                  | No dangerous good in sense of this transport regulation. |
| <b>14.2. UN proper shipping name:</b>    | No dangerous good in sense of this transport regulation. |
| <b>14.3. Transport hazard class(es):</b> | No dangerous good in sense of this transport regulation. |
| <b>14.4. Packing group:</b>              | No dangerous good in sense of this transport regulation. |

#### Inland waterways transport (ADN)

|                                          |                                                          |
|------------------------------------------|----------------------------------------------------------|
| <b>14.1. UN number:</b>                  | No dangerous good in sense of this transport regulation. |
| <b>14.2. UN proper shipping name:</b>    | No dangerous good in sense of this transport regulation. |
| <b>14.3. Transport hazard class(es):</b> | No dangerous good in sense of this transport regulation. |
| <b>14.4. Packing group:</b>              | No dangerous good in sense of this transport regulation. |

#### Marine transport (IMDG)

|                                          |                                                          |
|------------------------------------------|----------------------------------------------------------|
| <b>14.1. UN number:</b>                  | No dangerous good in sense of this transport regulation. |
| <b>14.2. UN proper shipping name:</b>    | No dangerous good in sense of this transport regulation. |
| <b>14.3. Transport hazard class(es):</b> | No dangerous good in sense of this transport regulation. |
| <b>14.4. Packing group:</b>              | No dangerous good in sense of this transport regulation. |

#### Air transport (ICAO-TI/IATA-DGR)

|                                          |                                                          |
|------------------------------------------|----------------------------------------------------------|
| <b>14.1. UN number:</b>                  | No dangerous good in sense of this transport regulation. |
| <b>14.2. UN proper shipping name:</b>    | No dangerous good in sense of this transport regulation. |
| <b>14.3. Transport hazard class(es):</b> | No dangerous good in sense of this transport regulation. |
| <b>14.4. Packing group:</b>              | No dangerous good in sense of this transport regulation. |

#### **14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: No

#### **14.6. Special precautions for user**

No dangerous good in sense of this transport regulation.

#### **14.7. Maritime transport in bulk according to IMO instruments**

No dangerous good in sense of this transport regulation.

### SECTION 15: Regulatory information

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

##### EU regulatory information

Information according to 2012/18/EU (SEVESO III): Not subject to 2012/18/EU (SEVESO III)

##### National regulatory information

Water hazard class (D): 1 - slightly hazardous to water

#### **15.2. Chemical safety assessment**

Chemical safety assessments for substances in this mixture were not carried out.

### SECTION 16: Other information

#### Changes

This data sheet contains changes from the previous version in section(s): 1,2,3,4,5,6,7,8,9,10,11,12,13,15,16.

#### Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route

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(European Agreement concerning the International Carriage of Dangerous Goods by Road )  
IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association  
GHS: Globally Harmonized System of Classification and Labelling of Chemicals  
EINECS: European Inventory of Existing Commercial Chemical Substances  
ELINCS: European List of Notified Chemical Substances  
CAS: Chemical Abstracts Service  
LC50: Lethal concentration, 50%  
LD50: Lethal dose, 50%  
CLP: Classification, labelling and Packaging  
REACH: Registration, Evaluation and Authorization of Chemicals  
GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals  
UN: United Nations  
DNEL: Derived No Effect Level  
DMEL: Derived Minimal Effect Level  
PNEC: Predicted No Effect Concentration  
ATE: Acute toxicity estimate  
LL50: Lethal loading, 50%  
EL50: Effect loading, 50%  
EC50: Effective Concentration 50%  
ErC50: Effective Concentration 50%, growth rate  
NOEC: No Observed Effect Concentration  
BCF: Bio-concentration factor  
PBT: persistent, bioaccumulative, toxic  
vPvB: very persistent, very bioaccumulative  
RID: Regulations concerning the international carriage of dangerous goods by rail  
ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways  
(Accord européen relatif au transport international des marchandises dangereuses par voies de navigation  
intérieures)  
EmS: Emergency Schedules  
MFAG: Medical First Aid Guide  
ICAO: International Civil Aviation Organization  
MARPOL: International Convention for the Prevention of Marine Pollution from Ships  
IBC: Intermediate Bulk Container  
SVHC: Substance of Very High Concern  
For abbreviations and acronyms, see table at <http://abbrev.esdscom.eu>

#### Relevant H and EUH statements (number and full text)

|      |                                                       |
|------|-------------------------------------------------------|
| H315 | Causes skin irritation.                               |
| H400 | Very toxic to aquatic life.                           |
| H410 | Very toxic to aquatic life with long lasting effects. |

#### Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*