

Safety Data Sheet

ASTRON Power 4T 20W-50

Revision date: 20.08.2024

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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

Motor oil multigrade

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@duran-oil.com | |
| Internet: | www.fosser.de | |
| Responsible Department: | Produktsicherheit / Product Safety | |
| | info@duran-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

GB CLP Regulation

Aquatic Chronic 3; H412

Full text of hazard statements: see SECTION 16.

2.2. Label elements

GB CLP Regulation

Hazard statements

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P273 Avoid release to the environment.
P501 Dispose of contents / container in accordance with official regulations.

Special labelling of certain mixtures

EUH208 Contains Benzenesulfonic acid, methyl-, mono-C20-24-branched alkyl derivs., calcium salts. May produce an allergic reaction.

2.3. Other hazards

Endocrine disrupting properties: phenol, dodecyl-, branched.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

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Hazardous components

| CAS No | Chemical name | | | Quantity |
|-------------|--|--------------|------------------|--------------|
| | EC No | Index No | REACH No | |
| | GHS Classification | | | |
| 722503-68-6 | Benzenesulfonic acid, methyl-, mono-C20-24-branched alkyl derivs., calcium salts | | | 0 - < 0,5 % |
| | 682-816-2 | | | |
| | Skin Sens. 1, Aquatic Chronic 4; H317 H413 | | | |
| 121158-58-5 | phenol, dodecyl-, branched | | | 0 - < 0,15 % |
| | 310-154-3 | 604-092-00-9 | 01-2119513207-49 | |
| | Repr. 1B, Skin Corr. 1C, Eye Dam. 1, Aquatic Acute 1, Aquatic Chronic 1; H360F H314 H318 H400 H410 | | | |

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

Specific Conc. Limits, M-factors and ATE

| CAS No | EC No | Chemical name | Quantity |
|-------------|-----------|--|--------------|
| | | Specific Conc. Limits, M-factors and ATE | |
| 121158-58-5 | 310-154-3 | phenol, dodecyl-, branched | 0 - < 0,15 % |
| | | dermal: LD50 = ca. 15000 mg/kg; oral: LD50 = 2100 mg/kg Aquatic Acute 1; H400: M=10 Aquatic Chronic 1; H410: M=10 | |

Further Information

Contains the following substances of very high concern (SVHC) which are included in the Candidate List according to Article 59 of REACH: phenol, dodecyl-, branched

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Remove affected person from the danger area and lay down.
 Do not leave affected person unattended.
 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 drunken 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.

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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.

- alcohol resistant foam
- Water spray jet
- Carbon dioxide (CO₂).
- Extinguishing powder

Unsuitable extinguishing media

Full water jet

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_x)
- Carbon monoxide (CO)
- Carbon dioxide (CO₂).
- 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 advice

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).

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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.
Keep away from sources of ignition - No smoking.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed and in a well-ventilated place.
Keep only in the original container. Store in a cool dry place.
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

7.3. Specific end use(s)

Motor oil multigrade

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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DNEL/DMEL values

| CAS No | Substance | Exposure route | Effect | Value |
|--------------------------|----------------------------|----------------|--------|-------------------------|
| DNEL type | | | | Value |
| 121158-58-5 | phenol, dodecyl-, branched | | | |
| Worker DNEL, acute | inhalation | systemic | | 44,18 mg/m ³ |
| Worker DNEL, long-term | dermal | systemic | | 0,25 mg/kg bw/day |
| Worker DNEL, acute | dermal | systemic | | 166 mg/kg bw/day |
| Consumer DNEL, long-term | inhalation | systemic | | 0,79 mg/m ³ |
| Consumer DNEL, acute | inhalation | systemic | | 13,26 mg/m ³ |
| Consumer DNEL, long-term | dermal | systemic | | 0,075 mg/kg bw/day |
| Consumer DNEL, acute | dermal | systemic | | 50 mg/kg bw/day |
| Consumer DNEL, long-term | oral | systemic | | 0,075 mg/kg bw/day |
| Consumer DNEL, acute | oral | systemic | | 1,26 mg/kg bw/day |

PNEC values

| CAS No | Substance | Value |
|--|----------------------------|---------------|
| Environmental compartment | | Value |
| 121158-58-5 | phenol, dodecyl-, branched | |
| Freshwater | | 0,000074 mg/l |
| Freshwater (intermittent releases) | | 0,00037 mg/l |
| Marine water | | 0,000007 mg/l |
| Freshwater sediment | | 0,226 mg/kg |
| Marine sediment | | 0,027 mg/kg |
| Secondary poisoning | | 4 mg/kg |
| Micro-organisms in sewage treatment plants (STP) | | 100 mg/l |
| Soil | | 0,118 mg/kg |

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 exhaustion 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.

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Eye/face protection

During filling, metering, mixing and sampling must be used:
Wear eye/face protection. 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.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

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

Changes in the physical state

| | |
|---|----------------|
| Melting point/freezing point: | not determined |
| Boiling point or initial boiling point and boiling range: | not determined |
| Pour point: | -33 °C |
| Flash point: | 210 °C |

Flammability

| | |
|---------------|----------------|
| Solid/liquid: | not applicable |
| | not applicable |

Explosive properties

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

| | |
|-------------------------|----------------|
| Lower explosion limits: | not determined |
| Upper explosion limits: | not determined |

Self-ignition temperature

| | |
|----------------------------|----------------|
| Solid: | not applicable |
| Gas: | not applicable |
| Decomposition temperature: | not determined |

Oxidizing properties

The product is not: oxidising.

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| | |
|--|--------------------------|
| Vapour pressure: | not determined |
| Density (at 15 °C): | 0,881 g/cm ³ |
| Water solubility: | not determined |
| Solubility in other solvents | |
| not determined | |
| Partition coefficient n-octanol/water: | not determined |
| Viscosity / kinematic: (at 40 °C) | 150,5 mm ² /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

10.4. Conditions to avoid

Avoid: Thermal decomposition

10.5. Incompatible materials

Materials to avoid:

- Acids
- Oxidising agent
- Reducing agent

10.6. Hazardous decomposition products

Hazardous combustion products:

- Nitrogen oxides (NO_x)
- Carbon monoxide (CO)
- Carbon dioxide (CO₂)
- Pyrolysis products, toxic

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in GB CLP Regulation

Acute toxicity

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

ATEmix calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

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| CAS No | Chemical name | | | | |
|-------------|----------------------------|---------------|-----------|--------|---|
| | Exposure route | Dose | Species | Source | Method |
| 121158-58-5 | phenol, dodecyl-, branched | | | | |
| | oral | LD50 mg/kg | 2100 | Rat | Publication (1978) OECD Guideline 401 |
| | dermal | LD50 mg/kg | ca. 15000 | Rabbit | Study report (1968) OECD Guideline 402 |

Irritation and corrosivity

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation: Based on available data, the classification criteria are not met.

Sensitising effects

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

Contains Benzenesulfonic acid, methyl-, mono-C20-24-branched alkyl derivs., calcium salts. May produce an allergic reaction.

Carcinogenic/mutagenic/toxic effects for reproduction

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

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

Reproductive toxicity: 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.

11.2. Information on other hazards

Endocrine disrupting properties

This product contains a substance that has endocrine disrupting properties with respect to humans.

SECTION 12: Ecological information

12.1. Toxicity

Harmful to aquatic life with long lasting effects.

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| CAS No | Chemical name | | | | | |
|-------------|----------------------------|----------------------|-----------|--|---------------------|--------------------|
| | Aquatic toxicity | Dose | [h] [d] | Species | Source | Method |
| 121158-58-5 | phenol, dodecyl-, branched | | | | | |
| | Acute fish toxicity | LL50 40 mg/l | 96 h | Pimephales promelas | Study report (1994) | OECD Guideline 203 |
| | Acute algae toxicity | ErC50 mg/l 0,15 | 72 h | Desmodesmus subspicatus | Study report (2005) | OECD Guideline 201 |
| | Acute crustacea toxicity | EC50 mg/l 0,037 | 48 h | Daphnia magna | Study report (2005) | OECD Guideline 202 |
| | Fish toxicity | NOEC mg/l 0,0037 | 21 d | Daphnia magna (Big water flea) | ECHA Dossier | |
| | Crustacea toxicity | NOEC mg/l 0,004 | 21 d | Daphnia magna | Study report (2005) | OECD Guideline 211 |
| | Acute bacteria toxicity | EC50 mg/l () > 1000 | 3 h | activated sludge of a predominantly industrial sew | Study report (2004) | OECD Guideline 209 |

12.2. Persistence and degradability

| CAS No | Chemical name | | | |
|-------------|--|-------|----|--------|
| | Method | Value | d | Source |
| | Evaluation | | | |
| 121158-58-5 | phenol, dodecyl-, branched | | | |
| | OECD 301B/ ISO 9439/ EEC 92/69/V, C.4-C | 25% | 28 | |
| | Not readily biodegradable (according to OECD criteria) | | | |

12.3. Bioaccumulative potential

Partition coefficient n-octanol/water

| CAS No | Chemical name | Log Pow |
|-------------|----------------------------|---------|
| 121158-58-5 | phenol, dodecyl-, branched | 7,14 |

BCF

| CAS No | Chemical name | BCF | Species | Source |
|-------------|----------------------------|-----|---------------------|---------------------|
| 121158-58-5 | phenol, dodecyl-, branched | 289 | Oncorhynchus mykiss | Study report (2006) |

12.4. Mobility in soil

The product has not been tested.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH.

12.6. Endocrine disrupting properties

Endocrine disrupting properties: phenol, dodecyl-, branched.

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

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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

Land transport (ADR/RID)

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

Inland waterways transport (ADN)

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

Marine transport (IMDG)

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

Air transport (ICAO-TI/IATA-DGR)

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

Authorisations (REACH, annex XIV):

Substances of very high concern, SVHC (REACH, article 59):
phenol, dodecyl-, branched

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 30

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| | |
|---|--|
| Directive 2004/42/EC on VOC in paints and varnishes: | 0,15 % (1,322 g/l) |
| Information according to Directive 2012/18/EU (SEVESO III): | Not subject to 2012/18/EU (SEVESO III) |

National regulatory information

| | |
|--------------------------------|--|
| Employment restrictions: | Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). |
| Water hazard class (D): | 2 - obviously hazardous to water |
| Skin resorption/Sensitization: | Causes allergic hypersensitivity reactions. |

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): 2,3,5,7,10,11,12.

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)
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

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MARPOL: International Convention for the Prevention of Marine Pollution from Ships

IBC: Intermediate Bulk Container

VOC: Volatile Organic Compounds

SVHC: Substance of Very High Concern

For abbreviations and acronyms, see table at <http://abbrev.esdscom.eu>

Classification for mixtures and used evaluation method according to GB CLP Regulation

| Classification | Classification procedure |
|-------------------------|--------------------------|
| Aquatic Chronic 3; H412 | Calculation method |

Relevant H and EUH statements (number and full text)

| | |
|--------|--|
| H314 | Causes severe skin burns and eye damage. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H360F | May damage fertility. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |
| H413 | May cause long lasting harmful effects to aquatic life. |
| EUH208 | Contains Benzenesulfonic acid, methyl-, mono-C20-24-branched alkyl derivs., calcium salts. May produce an allergic reaction. |

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 relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)