



# AUTOL TOP 2000

Material number 16100

## Safety Data Sheet

according to Regulation (EC) No 1907/2006 (REACH) and Regulation (EU) 2020/878

Revision date: 20.3.2024  
Version: 10.0  
Replaces version: 9.0  
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## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

Trade name: AUTOL TOP 2000

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

General use: Lubricants, greases, release products (fat)

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

Company name: Enilive Schmiertechnik GmbH  
Street/POB-No.: Paradiesstraße 14  
Postal Code, city: 97080 Würzburg  
Germany  
E-mail: info.wuerzburg@enilive.com  
Telephone: +49 (0)931-90098-0  
Telefax: +49 (0)931-98442

Department responsible for information:

Application Engineering & Product Management (AEPM)  
Telephone: +49 (0)931-90098-0  
E-mail: technik.wuerzburg@enilive.com

### 1.4 Emergency telephone number

**GIZ-Nord, Göttingen**  
**Telephone: +49 (0)551-19240**

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

#### Classification according to EC regulation 1272/2008 (CLP)

This mixture is classified as not hazardous.

### 2.2 Label elements

#### Labelling (CLP)

Hazard statements: not applicable

Precautionary statements: not applicable

#### Special labelling

EUH210 Safety data sheet available on request.

### 2.3 Other hazards

Special danger of slipping by leaking/spilling product.

Endocrine disrupting properties, Results of PBT and vPvB assessment:

No data available

## SECTION 3: Composition/information on ingredients

3.1 Substances: not applicable

### 3.2 Mixtures

Chemical characterisation: A mixture of base oils and additives.

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Hazardous ingredients:

| Identifiers  | Designation<br>Classification   | Content |
|--|---|---------|
| REACH 01-2119493635-27-xxxx<br>EC No. 224-235-5<br>CAS 4259-15-8 | Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate)<br>Eye Dam. 1; H318. Aquatic Chronic 2; H411.<br><br>Specific concentration limits (SCL):<br>Eye Dam.1; H318: C ≥ 50 % | 1 - 5 % |

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

Additional information: The highly refined mineral oil contains &lt;3% (w/w) DMSO extract, according to IP346.

**SECTION 4: First aid measures****4.1 Description of first aid measures**

|                         |  |
|-------------------------|--|
| General information:    | Take off contaminated clothing and wash it before reuse.<br>In the event of cardiac arrest immediately perform cardiopulmonary resuscitation.  |
| In case of inhalation:  | If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.<br>If breathing becomes irregular or ceases, apply rescue breathing or artificial respiration immediately, where required supply oxygen.<br>When in doubt or if symptoms are observed, get medical advice. |
| Following skin contact: | After contact with skin, wash immediately with soap and plenty of water. In case of skin reactions, consult a physician.   |
| After eye contact:      | Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. Subsequently consult an ophthalmologist.   |
| After swallowing:       | Rinse mouth. Never give anything by mouth to an unconscious person. Do not induce vomiting. Danger of aspiration!<br>Call a doctor if you feel unwell.   |

**4.2 Most important symptoms and effects, both acute and delayed**

The following symptoms may occur:  
respiratory complaints, Headache, Dizziness, discomfort.  
Symptoms can occur only after several hours.

**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: extinguishing powder, foam, Sand, carbon dioxide.  
Co-ordinate fire-fighting measures to the fire surroundings.

Extinguishing media which must not be used for safety reasons:  
Water

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

May form dangerous gases and vapours in case of fire.  
Furthermore, there may develop: Nitrogen oxides (NO<sub>x</sub>), carbon monoxide and carbon dioxide.

**5.3 Advice for firefighters**

Special protective equipment for firefighters:  
Wear a self-contained breathing apparatus and chemical protective clothing.

Additional information: Use fine water spray to cool endangered containers. Move undamaged containers from immediate hazard area if it can be done safely. Contaminated fire-fighting water must be collected separately. Do not allow water used to extinguish fire to enter drains, ground or waterways. Fire residuals and contaminated extinguishing water must be disposed of in accordance with the regulations of the local authorities.

## SECTION 6: Accidental release measures

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

Avoid breathing mist/vapours/spray. Avoid contact with the substance.  
If possible, eliminate leakage. Remove all sources of ignition. Provide adequate ventilation.  
Keep unprotected people away.  
Wear appropriate protective equipment. Take off contaminated clothing and wash it before reuse.

### 6.2 Environmental precautions

Do not allow to enter into ground-water, surface water or drains.  
If necessary notify appropriate authorities.

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

Clear spills immediately.  
Wipe up with absorbent material (eg. cloth, fleece). Absorb with liquid-binding material (e.g. sand, diatomaceous earth, universal binding agents, sawdust).  
Prevent spread over a wide area (e.g. by containment or oil barriers). Make sure spills can be contained, e.g. in sump pallets or kerbed areas. cover drains  
Never return spills in original containers for re-use.

Additional information: Special danger of slipping by leaking/spilling product.

### 6.4 Reference to other sections

Refer additionally to section 8 and 13.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Advices on safe handling: Provide adequate ventilation, and local exhaust as needed. Avoid breathing mist/vapours/spray. Do not get in eyes, on skin, or on clothing. Wear appropriate protective equipment.  
Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.  
Take off contaminated clothing and wash it before reuse.  
Avoid contact with skin, eyes, and clothing.

Precautions against fire and explosion: Keep away from heat. Keep away from sources of ignition - No smoking.  
When handling larger quantities, take precautionary measures against electrostatic charging.

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

Requirements for storerooms and containers: Keep container tightly closed in a cool, well-ventilated place.  
Make sure spills can be contained, e.g. in sump pallets or kerbed areas. Shafts and sewers must be protected from entry of the product.  
Protect from exposure to heat, direct sunlight, and cold.  
Keep container dry. Keep only in the original container.  
Store containers in upright position.  
Protect from frost. Recommended storage temperature: 0 - 40 °C  
storage stability: > 6 months (0 - 40 °C)

Hints on joint storage: Do not store together with: oxidizing agents, acids.  
Keep away from food, drink and animal feedingstuffs.

Storage class: 10 = Combustible liquids, unless storage class 3

### 7.3 Specific end use(s)

No information available.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

Occupational exposure limit values:

| CAS No.   | Designation  | Type                  | Limit value  |
|-----------|--|-----------------------|--|
| 4259-15-8 | Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate) | Germany: DFG Kurzzeit | 0,4 mg/m <sup>3</sup><br>(compounds, inorganic; respirable fraction) |
|           |  | Germany: DFG Kurzzeit | 4 mg/m <sup>3</sup><br>(compounds, inorganic; inhalable fraction)    |
|           |  | Germany: DFG Langzeit | 0,1 mg/m <sup>3</sup><br>(compounds, inorganic; respirable fraction) |
|           |  | Germany: DFG Langzeit | 2 mg/m <sup>3</sup><br>(compounds, inorganic; inhalable fraction)    |

DNEL/DMEL: Information about Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate):  
 DNEL workers, systemic, long-term, inhalative: 6,6 mg/m<sup>3</sup>  
 DNEL workers, systemic, long-term, dermal: 9,6 mg/kg bw/d

PNEC: Information about Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate):  
 PNEC water (freshwater): 4 µg/L  
 PNEC water (marine water): 4,6 µg/L  
 PNEC sewage treatment plant: 3,8 mg/L  
 PNEC sediment (freshwater): 0,322 mg/kg  
 PNEC sediment (marine water): 0,032 mg/kg  
 PNEC soil: 0,062 mg/kg

### 8.2 Exposure controls

Provide for good ventilation or exhaust system or work with completely self-contained equipment.

### Personal protection equipment

#### Occupational exposure controls

- Respiratory protection: In case of inadequate ventilation wear respiratory protection. The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product.
- Hand protection: Protective gloves according to DIN EN 374.  
 Glove material: Nitrile rubber (NBR)  
 Breakthrough time: 240 min  
 Layer thickness: 0,12 mm  
 Unsuitable glove material: Butyl caoutchouc (butyl rubber), NR (natural rubber, Natural latex), CR (Polychloroprene, Chloroprene rubber). Observe glove manufacturer's instructions concerning penetrability and breakthrough time.
- Eye protection: Tightly sealed goggles according to DIN EN ISO 16321-1:2022.
- Body protection: Wear suitable protective clothing.
- General protection and hygiene measures:  
 Avoid breathing mist/vapours/spray. Do not get in eyes, on skin, or on clothing.  
 Take off contaminated clothing and wash it before reuse.  
 Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.

**Environmental exposure controls**

Refer to "6.2 Environmental precautions".

**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties**

|   |  |
|---|--|
| Physical state at 20 °C and 101.3 kPa         | liquid   |
| Colour:                                       | Form: Paste<br>green   |
| Odour:  | Characteristic   |
| Odour threshold:                              | No data available  |
| Melting point/freezing point:                 | > 150 °C (1013 hPa)  |
| Initial boiling point and boiling range:      | > 250 °C (1013 hPa)  |
| Flammability:                                 | No data available  |
| Upper/lower flammability or explosive limits: | LEL (Lower Explosion Limit): Not determined<br>UEL (Upper Explosive Limit): Not determined |
| Flash point/flash point range:                | > 200 °C   |
| Auto-ignition temperature:                    | Not determined   |
| Decomposition temperature:                    | No data available  |
| pH:   | Not determined   |
| Viscosity, kinematic:                         | Not determined   |
| Solubility:                                   | Not determined   |
| Partition coefficient: n-octanol/water:       | No data available  |
| Vapour pressure:                              | No data available  |
| Density:                                      | at 25 °C: approx. 0,93 g/mL (DIN 51757)  |
| Vapour density:                               | No data available  |
| Particle characteristics:                     | Not applicable   |

**9.2 Other information**

|                            |                           |
|----------------------------|---------------------------|
| Explosive properties:      | Product is not explosive. |
| Oxidizing characteristics: | No data available         |
| Auto-ignition temperature: | No data available         |
| Evaporation rate:          | No data available         |

**SECTION 10: Stability and reactivity****10.1 Reactivity**

Refer to subsection "Possibility of hazardous reactions".

**10.2 Chemical stability**

Stable under recommended storage conditions.

**10.3 Possibility of hazardous reactions**

No hazardous reaction when handled and stored according to provisions.

**10.4 Conditions to avoid**Keep away from heat sources, sparks and open flames.  
Protect from direct sunlight. Protect from frost.**10.5 Incompatible materials**

Strong oxidizing agents, acids

## 10.6 Hazardous decomposition products

Thermal decomposition: No data available

## SECTION 11: Toxicological information

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

Toxicological effects:

- Acute toxicity (oral): Based on available data, the classification criteria are not met.
- Acute toxicity (dermal): Based on available data, the classification criteria are not met.
- Acute toxicity (inhalative): Based on available data, the classification criteria are not met.
- Skin corrosion/irritation: Based on available data, the classification criteria are not met.
- Serious eye damage/irritation: Based on available data, the classification criteria are not met.
- Sensitisation to the respiratory tract: Based on available data, the classification criteria are not met.
- Skin sensitisation: Based on available data, the classification criteria are not met.
- Germ cell mutagenicity/Genotoxicity: 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.
- Effects on or via lactation: Lack of data.
- Specific target organ toxicity (single exposure): Based on available data, the classification criteria are not met.
- Specific target organ toxicity (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: None

Other information: No data available

## SECTION 12: Ecological information

### 12.1 Toxicity

Aquatic toxicity:

- Fish toxicity:  
LC50 Danio rerio (zebrafish): >100 mg/L/96 h
- Daphnia toxicity:  
EC50 Daphnia magna (Big water flea): >100 mg/L/48 h
- Algae toxicity:  
EC50: >100 mg/L/72 h

Water Hazard Class: 1 = slightly hazardous to water (Self-classification (mixture).)

### 12.2 Persistence and degradability

Further details: No data available

### 12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water:  
No data available

### 12.4 Mobility in soil

No data available



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### 12.5 Results of PBT and vPvB assessment

No data available

### 12.6 Endocrine disrupting properties

None

### 12.7 Other adverse effects

General information: Do not allow to enter into ground-water, surface water or drains.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Product

Waste key number: 12 01 12\* = spent waxes and fats  
\* = Evidence for disposal must be provided.

Recommendation: The waste is to be kept separate from other types of waste until its disposal.  
Dispose of waste according to applicable legislation.  
Do not dispose of with household waste.

#### Package

Waste key number: 15 01 10\* = packaging containing residues of or contaminated by dangerous substances  
\* = Evidence for disposal must be provided.

Recommendation: Dispose of waste according to applicable legislation.  
Handle contaminated packages in the same way as the substance itself.  
Non-contaminated packages may be recycled.

## SECTION 14: Transport information

### 14.1 UN number or ID number

ADR/RID, ADN, IMDG, IATA-DGR:  
not applicable

### 14.2 UN proper shipping name

ADR/RID, ADN, IMDG, IATA-DGR:  
Not restricted

### 14.3 Transport hazard class(es)

ADR/RID, ADN, IMDG, IATA-DGR:  
not applicable

### 14.4 Packing group

ADR/RID, ADN, IMDG, IATA-DGR:  
not applicable

### 14.5 Environmental hazards

Dangerous for the environment: Substance/mixture is not environmentally hazardous  
according to the criteria of the UN model regulations.

Marine pollutant - IMDG: no

### 14.6 Special precautions for user

No dangerous good in sense of these transport regulations.

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

No data available



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## SECTION 15: Regulatory information

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

#### National regulations - Germany

Storage class: 10 = Combustible liquids, unless storage class 3

Water Hazard Class: 1 = slightly hazardous to water (Self-classification (mixture).)

Technical guidance air: 5.2.5

Further regulations, limitations and legal requirements:

The product is not subject to the Chemicals Prohibition Ordinance (ChemVerbotsV).

#### National regulations - EC member states

Volatile organic compounds (VOC):

< 3 % by weight

#### Labelling of packaging with <= 125mL content

Hazard statements: EUH210 Safety data sheet available on request.

Precautionary statements: not applicable

Further regulations, limitations and legal requirements:

No data available

### 15.2 Chemical Safety Assessment

For this mixture a chemical safety assessment is not required.

## SECTION 16: Other information

Wording of the H-phrases under paragraph 2 and 3:

H318 = Causes serious eye damage.

H411 = Toxic to aquatic life with long lasting effects.

EUH210 = Safety data sheet available on request.

Reason of change: Changes in section 1: Details of the supplier of the safety data sheet  
General revision

Date of first version: 14.4.2021

Department issuing data sheet: see section 1: Department responsible for information

Abbreviations and acronyms: ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways  
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road  
Aquatic Chronic: Hazardous to the aquatic environment - chronic  
AS/NZS: Australian Standards/New Zealand Standards  
CAS: Chemical Abstracts Service  
CFR: Code of Federal Regulations  
CLP: Classification, Labelling and Packaging  
DMEL: Derived minimal effect level  
DNEL: Derived no-effect level  
EC: European Community  
EC50: Effective Concentration 50%  
EN: European Standard  
EQ: Excepted quantities  
EU: European Union  
Eye Dam.: Eye damage  
IATA: International Air Transport Association  
IATA-DGR: International Air Transport Association – Dangerous Goods Regulations  
IBC Code: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk  
IMDG Code: International Maritime Dangerous Goods Code  
LC50: Median lethal concentration  
LEL: Lower Explosion Limit  
MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships  
OSHA: Occupational Safety and Health Administration  
PBT: Persistent, bioaccumulative and toxic  
PNEC: Predicted no-effect concentration  
REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals  
RID: Regulations Concerning the International Carriage of Dangerous Goods by Rail  
TRGS: Technical Rules for Hazardous Substances  
vPvB: Very persistent and very bioaccumulative

The information in this data sheet has been established to our best knowledge and was up-to-date at time of revision. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.



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Most recent product information is available at:  
<http://sumdat.net/9winu1va>

