



# AUTOL TOP 2000 HIGH TEMP

Material number 16180

Revision date: 20.3.2024  
Version: 12.0  
Replaces version: 11.2  
Language: en-DE  
Date of print: 21.3.2024

## Safety Data Sheet

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

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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 HIGH TEMP

### 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

EUH208 Contains Naphthenic acids, zinc salts and Dipentylammonium dipentylthiocarbamate. May produce an allergic reaction.  
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 Classification	Content
REACH 01-2119493635-27-xxxx EC No. 224-235-5 CAS 4259-15-8	Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate) Eye Dam. 1; H318. Aquatic Chronic 2; H411.  Specific concentration limits (SCL): Eye Dam.1; H318: C ≥ 50 %	< 5 %
EC No. 234-409-2 CAS 12001-85-3	Naphthenic acids, zinc salts Eye Irrit. 2; H319. Skin Sens. 1B; H317. Aquatic Chronic 2; H411.	< 1 %
REACH 01-2120793078-43-xxxx EC No. 276-172-8 CAS 71902-20-0	Dipentylammonium dipentylidithiocarbamate Acute Tox. 4; H302. Skin Sens. 1B; H317. Aquatic Acute 1; H400. Aquatic Chronic 1; H410.  M-factors: Aquatic Acute 1: M = 1. Aquatic Chronic 1: M = 1.	< 1 %

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:	If medical advice is needed, have product container or label at hand. Take off contaminated clothing and wash it before reuse.
In case of inhalation:	If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Seek medical attention if problems persist.
Following skin contact:	Immediately clean with water and soap followed by thorough rinsing. 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 immediately and drink plenty of water. Never give anything by mouth to an unconscious person. Do not induce vomiting. Seek medical attention.

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

May cause allergic reactions in already sensitized persons.  
Respiratory complaints, headache, discomfort, dizziness.  
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 (NOx), carbon monoxide and carbon dioxide.

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**5.3 Advice for firefighters**

Special protective equipment for firefighters:

Wear a self-contained breathing apparatus and chemical protective clothing.

Additional information:

Do not inhale explosion and combustion gases. Cool exposed containers with water spray, but avoid contact of the substance with water.

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. 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**

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents) and place in closed containers for disposal.

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.

Work place should be equipped with a shower and an eye rinsing apparatus.

Precautions against fire and explosion:

Keep away from heat.

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 and in a well-ventilated place.

Keep container dry. Keep only in the original container.

Protect against heat, sun rays and frost. Store containers in upright position.

Recommended storage temperature: 0 - 40 °C

Storage stability: &gt; 6 months

Hints on joint storage:

Do not store together with: Acids, oxidizing agents.

Keep away from food, drink and animal feedingstuffs.

Storage class:

10 = Combustible liquids, unless storage class 3

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### 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> (compounds, inorganic; respirable fraction)
		Germany: DFG Kurzzeit	4 mg/m <sup>3</sup> (compounds, inorganic; inhalable fraction)
		Germany: DFG Langzeit	0,1 mg/m <sup>3</sup> (compounds, inorganic; respirable fraction)
		Germany: DFG Langzeit	2 mg/m <sup>3</sup> (compounds, inorganic; inhalable fraction)

DNEL/DMEL:

Information about Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate):

 DNEL workers, Long-term, systemic, inhalative: 6,6 mg/m<sup>3</sup>

DNEL workers, Long-term, systemic, dermal: 9,6 mg/kg bw/d

 DNEL consumer, Long-term, systemic, inhalative: 1,67 mg/m<sup>3</sup>

DNEL consumer, Long-term, systemic, dermal: 4,8 mg/kg bw/d

DNEL consumer, Long-term, systemic, oral: 0,19 mg/kg bw/d

Information about Naphthenic acids, zinc salts:

 DNEL workers, Long-term, systemic, inhalative: 1,18 mg/m<sup>3</sup>

DNEL workers, Long-term, systemic, dermal: 3,3 mg/kg bw/d

 DNEL consumer, Long-term, systemic, inhalative: 0,29 mg/m<sup>3</sup>

DNEL consumer, Long-term, systemic, dermal: 1,7 mg/kg bw/d

DNEL consumer, Long-term, systemic, oral: 0,17 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 sediment (freshwater): 0,322 mg/kg dw

PNEC sediment (marine water): 0,032 mg/kg dw

PNEC sewage treatment plant: 3,8 mg/L

PNEC soil: 0,062 mg/kg dw

### 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. Respiratory protection must be worn whenever the WEL levels have been exceeded.

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.

Qualified glove material: Acrylonitrile-butadiene-rubber (NBR)

Unsuitable glove material: Butyl caoutchouc (butyl rubber), natural rubber (Caoutchouc), chloroprene rubber

Breakthrough time: 240 min

Layer thickness: 0,12 mm

Observe glove manufacturer's instructions concerning penetrability and breakthrough time.



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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.  
Work place should be equipped with a shower and an eye rinsing apparatus.

### 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 brown
Odour:	Characteristic
Odour threshold:	No data available
Melting point/freezing point:	> 260 °C
Initial boiling point and boiling range:	> 250 °C
Flammability:	This material is combustible, but will not ignite readily.
Upper/lower flammability or explosive limits:	No data available
Flash point/flash point range:	> 200 °C
Decomposition temperature:	No data available
pH:	No data available
Viscosity, kinematic:	No data available
Water solubility:	Not/slightly miscible
Partition coefficient: n-octanol/water:	No data available
Vapour pressure:	No data available
Density:	at 25 °C: approx. 0,93 g/mL
Vapour density:	No data available
Particle characteristics:	Not applicable

### 9.2 Other information

Explosive properties:	No data available
Oxidizing characteristics:	No data available
Auto-ignition temperature:	No data available
Evaporation rate:	No data available
Additional information:	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.

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**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**

Acids, oxidizing agents.

**10.6 Hazardous decomposition products**

Thermal decomposition: No decomposition when used properly.  
No data available

**SECTION 11: Toxicological information****11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**

Toxicological effects: The statements are derived from the properties of the single components. No toxicological data is available for the product as such.

- Acute toxicity (oral): Lack of data.
- Acute toxicity (dermal): Lack of data.
- Acute toxicity (inhalative): Lack of data.
- Skin corrosion/irritation: Lack of data.
- Serious eye damage/irritation: Lack of data.
- Sensitisation to the respiratory tract: Lack of data.
- Skin sensitisation: Based on available data, the classification criteria are not met.
- Contains Naphthenic acids, zinc salts and Dipentylammonium dipentylidithiocarbamate. May produce an allergic reaction.
- Germ cell mutagenicity/Genotoxicity: Lack of data.
- Carcinogenicity: Lack of data.
- Reproductive toxicity: Lack of data.
- Effects on or via lactation: Lack of data.
- Specific target organ toxicity (single exposure): Lack of data.
- Specific target organ toxicity (repeated exposure): Lack of data.
- Aspiration hazard: Lack of data.

**11.2 Information on other hazards**

Endocrine disrupting properties: No data available

Other information: Information about Dipentylammonium dipentylidithiocarbamate:  
LD50 Rat, oral: 300 - 2.000 mg/kg

**Symptoms**

Respiratory complaints, headache, discomfort, dizziness.  
Symptoms can occur only after several hours.



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## SECTION 12: Ecological information

### 12.1 Toxicity

Aquatic toxicity: The substance/mixture does not fulfill the criteria of the acute aquatic toxicity according to Regulation (EC) No 1272/2008 [CLP], Annex I.

Fish toxicity:

LC50 Danio rerio (zebrafish): > 100 mg/L/96h

Daphnia toxicity:

EC50 Daphnia magna (Big water flea): > 100 mg/L/48h

Algae toxicity:

EC50 Algae: > 100 mg/L/72h

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

### 12.5 Results of PBT and vPvB assessment

No data available

### 12.6 Endocrine disrupting properties

This product does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% (w/w) or higher.

### 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: Dispose of waste according to applicable legislation.  
Do not dispose of with household waste.

#### Package

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



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### 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

## 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

Information on working limitations:

Observe employment restrictions for young people.

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: EUH208 Contains Naphthenic acids, zinc salts and Dipentylammonium dipentylidithiocarbamate. May produce an allergic reaction.

EUH210 Safety data sheet available on request.

Precautionary statements: not applicable

Further regulations, limitations and legal requirements:

Use restriction according to REACH annex XVII, no.: 75.

### 15.2 Chemical Safety Assessment

For this mixture a chemical safety assessment is not required.



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**SECTION 16: Other information**

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

H302 = Harmful if swallowed.

H317 = May cause an allergic skin reaction.

H318 = Causes serious eye damage.

H319 = Causes serious eye irritation.

H400 = Very toxic to aquatic life.

H410 = Very toxic to aquatic life with long lasting effects.

H411 = Toxic to aquatic life with long lasting effects.

EUH208 = Contains Naphthenic acids, zinc salts and Dipentylammonium dipentylidithiocarbamate. May produce an allergic reaction.

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: 29.3.2022

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

Abbreviations and acronyms:

- Acute Tox.: Acute toxicity
- 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 Acute: Hazardous to the aquatic environment - acute
- 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
- Eye Irrit.: Eye irritation
- 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
- LD50: Lethal dose 50%
- MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships
- M-factor: Multiplication factor
- OEL: Occupational Exposure Limit Value
- 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
- Skin Sens.: Skin sensitisation
- TLV: Threshold Limit Value
- TRGS: Technical Rules for Hazardous Substances
- vPvB: Very persistent and very bioaccumulative
- WEL: Workplace Exposure Limit

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.

Most recent product information is available at:  
<http://sumdat.net/7tpaqfx>

