



# AUTOL TOP 2000

Material number 16100

## Safety Data Sheet

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

Revision date: 25.10.2024  
Version: 10.3  
Replaces version: 10.2  
Language: en-DE  
Date of print: 30.10.2024

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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

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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.



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### 2.3 Other hazards

Special danger of slipping by leaking/spilling product.

Endocrine disrupting properties, Results of PBT and vPvB assessment:

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. The product contains no components classified as PBT or as vPvB at concentrations of 0.1% or higher.

## SECTION 3: Composition/information on ingredients

3.1 Substances: not applicable

### 3.2 Mixtures

Chemical characterisation: A mixture of base oils and additives.

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 %	1 - 5 %

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

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

General information:	Take off contaminated clothing and wash it before reuse. 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. If breathing becomes irregular or ceases, apply rescue breathing or artificial respiration immediately, where required supply oxygen. 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! Call a doctor if you feel unwell.



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### 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: Metal oxide smoke, carbon monoxide and carbon dioxide.

### 5.3 Advice for firefighters

Special protective equipment for firefighters:

Wear self-contained positive pressure breathing apparatus and full firefighting 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.



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### 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.

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 frost, heat and sunlight.

Keep container dry. Keep only in the original container.

Store containers in upright position.

Recommended storage temperature: 5 - 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 that cannot be assigned to any of the above storage classes

### 7.3 Specific end use(s)

No information available.

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## 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) (CAS 4259-15-8):  
 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) (CAS 4259-15-8):  
 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. Respiratory protection must be worn whenever the WEL levels have been exceeded.  
 Use combination filter type A/P3 according to EN 14387.  
 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 ISO 374:1.  
 Glove material: Nitrile rubber (NBR)  
 Breakthrough time: 240 min  
 Layer thickness: 0,12 mm  
 Unsuitable glove material: Butyl caoutchouc (butyl rubber), NR (natural rubber (Caoutchouc), 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.



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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
	Form: paste
Colour:	green
Odour:	Characteristic
Odour threshold:	No data available
Melting point/freezing point:	> 150 °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:	LEL (Lower Explosion Limit): Not determined UEL (Upper Explosive Limit): Not determined
Flash point/flash point range:	> 200 °C
Auto-ignition temperature:	Not determined
Decomposition temperature:	Not relevant
pH:	Not determined
Viscosity, kinematic:	Not determined
Solubility:	Not determined
Partition coefficient: n-octanol/water:	No data available
Vapour pressure:	Not determined
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

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Refer to subsection "Possibility of hazardous reactions".

### 10.2 Chemical stability

Stable under recommended storage conditions.



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### 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

Oxidizing agents, acids.

### 10.6 Hazardous decomposition products

No hazardous decomposition products when regulations for storage and handling are observed.

Thermal decomposition: Not relevant

## 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): 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.  
May be harmful if inhaled.

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:

Information about Zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate) (CAS 4259-15-8):  
LD50, Rat, oral: 3.100 mg/kg (OECD 401)



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## SECTION 12: Ecological information

### 12.1 Toxicity

Aquatic toxicity: Data refer to product:  
Fish toxicity:  
LC50 Danio rerio (zebrafish): > 100 mg/L/96h (OECD 203)  
Daphnia toxicity:  
EC50 Daphnia magna (Big water flea): > 100 mg/L/48h (OECD 202)  
Algae toxicity:  
EC50: > 100 mg/L/72h (OECD 201)  
NOEC: > 100 mg/L/72h (OECD 201)  
Based on available data, the classification criteria are not met.  
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

The product contains no components classified as PBT or as vPvB at concentrations of 0.1% or higher.

### 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.





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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

## 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 that cannot be assigned to any of the above storage classes

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

Technical guidance air: 5.2.5

Further regulations, limitations and legal requirements:  
No data available



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### 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

Classification procedure: Health hazards: Calculation method  
Environmental hazards: On basis of test data

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 9: Physical and chemical properties  
Changes in section 12: Results of PBT and vPvB assessment  
General revision

Date of first version: 14.4.2021

Department issuing data sheet:

see section 1: Department responsible for information



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### 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  
LD50: Lethal dose 50%  
LEL: Lower Explosion Limit  
MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships  
NOEC: No Observed Effect Concentration  
OECD: Organisation for Economic Co-operation and Development  
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  
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/9winu1va>

