

simatec AG  
3380 Wangen a. Aare

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Version 1.0

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

### 1.1 Product identifier

**SL24 simalube grease for wide temperature range (EP)**

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

#### 1.2.1 Relevant uses

Grease

#### 1.2.2 Uses advised against

None known.

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

**Company** simatec AG  
Stadthof 2  
3380 Wangen a. Aare / SWITZERLAND  
Phone +41 32-636-50 00  
Fax +41 32-636-50 19  
Homepage [www.simatec.com](http://www.simatec.com)  
E-mail [support@simatec.com](mailto:support@simatec.com)

#### Address enquiries to

#### Technical information

[support@simatec.com](mailto:support@simatec.com)

#### Safety Data Sheet

[sdb@chemiebuero.de](mailto:sdb@chemiebuero.de) (No dispatch of safety data sheets)  
Safety data sheets are available from the supplier.

### 1.4 Emergency telephone number

#### Advisory body

Call NHS 111 or a doctor

#### Company

+41 32-636-50 00 Mo-Fr 8:00 - 17:00

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture [REGULATION (GB) CLP]

No classification.

### 2.2 Label elements

The product does not require a hazard warning label in accordance with regulation CLP.

#### Hazard pictograms

#### Hazard statements

none

### 2.3 Other hazards

#### Human health dangers

Frequent persistent contact with the skin can cause skin irritation.  
The substance/mixture 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% or higher.

#### Environmental hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

The substance/mixture 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% or higher.

#### Other hazards

None known.

## SECTION 3: Composition / Information on ingredients

### 3.1 Substances

not applicable

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### 3.2 Mixtures

The product is a mixture.

Range [%]	Substance
1 - 5	Dilithium azelate CAS: 38900-29-7, EINECS/ELINCS: 254-184-4, Reg-No.: 01-2120119814-57-XXXX GHS/CLP: Acute Tox. 4: H302
<1	Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene CAS: 68411-46-1, EINECS/ELINCS: 270-128-1, Reg-No.: 01-2119491299-23-XXXX GHS/CLP: Repr. 2: H361f - Aquatic Chronic 3: H412

Comment on component parts

For full text of H-statements: see SECTION 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

General information

Take off contaminated clothing and wash before reuse.

Inhalation

Ensure supply of fresh air.  
In the event of symptoms seek medical treatment.

Skin contact

When in contact with the skin, clean with soap and water.  
Consult a doctor if skin irritation persists.

Eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
If eye irritation persists: Get medical advice/attention.

Ingestion

Rinse out mouth and give plenty of water to drink.  
Do not induce vomiting.  
Seek medical advice immediately.

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

None known.

### 4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## SECTION 5: Fire-fighting measures

### 5.1 Extinguishing media

Suitable extinguishing media

Carbon dioxide.  
Dry powder.  
Foam.

Extinguishing media that must not be used

Full water jet.

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

Risk of formation of toxic pyrolysis products.

### 5.3 Advice for firefighters

Do not inhale explosion and/or combustion gases.  
Use self-contained breathing apparatus.

Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

## SECTION 6: Accidental release measures

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

High risk of slipping due to leakage/spillage of product.

### 6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

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

Take up mechanically.  
Dispose of absorbed material in accordance with the regulations.

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#### 6.4 Reference to other sections

See SECTION 8+13

### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

The normal safety precautions for handling chemicals must be observed.

Wash hands before breaks and after work.  
Use barrier skin cream.  
Take off contaminated clothing and wash before reuse.  
Do not eat, drink, smoke or snuff while working.

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

Keep only in original container.  
Prevent penetration into the ground.  
Do not store with oxidizing or self-igniting materials.  
Do not store together with food and animal food/diet.  
Keep container tightly closed.  
Storage: < 45°C

#### 7.3 Specific end use(s)

See product use, SECTION 1.2

### SECTION 8: Exposure controls / personal protection

#### 8.1 Control parameters

##### Ingredients with occupational exposure limits to be monitored (UK)

not relevant

##### Ingredients with occupational exposure limits to be monitored EU (2004/37/EG)

not relevant

#### DNEL

Substance
Dilithium azelate, CAS: 38900-29-7
Industrial, dermal, Acute - local effects, 46 µg/cm <sup>2</sup>
general population, dermal, Acute - systemic effects, 23 µg/cm <sup>2</sup>
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene, CAS: 68411-46-1
Industrial, inhalative, Long-term - systemic effects, 0,31 mg/m <sup>3</sup>
Industrial, dermal, Long-term - systemic effects, 0,44 mg/kg bw/day
general population, inhalative, Long-term - systemic effects, 0,08 mg/m <sup>3</sup>
general population, dermal, Long-term - systemic effects, 0,22 mg/kg bw/day
general population, oral, Long-term - systemic effects, 0,05 mg/kg bw/day

#### PNEC

Substance
Dilithium azelate, CAS: 38900-29-7
freshwater, 23 µg/L
seawater, 2,3 µg/L
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene, CAS: 68411-46-1
freshwater, 0,034 mg/L
seawater, 0,003 mg/L
sewage treatment plants (STP), 10 mg/L
sediment (freshwater), 0,446 mg/kg sediment dw
sediment (seawater), 0,045 mg/kg sediment dw
soil, 17,6 mg/kg soil dw
oral (food), 0,833 mg/kg food

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## 8.2 Exposure controls

<b>Additional advice on system design</b>	Ensure adequate ventilation on workstation. Measurement methods for taking workplace measurements must meet the performance requirements of DIN EN 482. For example, recommendations are given in the IFA's list of hazardous substances. General exposure limit for oil mist should be noted.
<b>Eye protection</b>	Safety glasses. (EN 166:2001)
<b>Hand protection</b>	0,4 mm; Nitrile rubber, >240 min (EN 374-1/-2/-3). The details concerned are recommendations. Please contact the glove supplier for further information.
<b>Skin protection</b>	Protective clothing (EN 340)
<b>Other</b>	Avoid contact with eyes and skin. Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity handled. The resistance of this equipment to chemicals should be ascertained with the respective supplier.
<b>Respiratory protection</b>	Not required under normal conditions.
<b>Thermal hazards</b>	none
<b>Delimitation and monitoring of the environmental exposition</b>	Protect the environment by applying appropriate control measures to prevent or limit emissions.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

<b>Physical state</b>	liquid
<b>Form</b>	pasty
<b>Color</b>	yellow
<b>Odor</b>	oil-like
<b>Odour threshold</b>	not applicable
<b>pH-value</b>	not applicable
<b>pH-value [1%]</b>	not applicable
<b>Boiling point or initial boiling point and boiling range [°C]</b>	not determined
<b>Flash point [°C]</b>	> 150
<b>Flammability</b>	Combustible
<b>Lower explosion limit</b>	not determined
<b>Upper explosion limit</b>	not determined
<b>Oxidising properties</b>	no
<b>Vapour pressure/gas pressure [kPa]</b>	not determined
<b>Density [g/cm³]</b>	< 1 (20 °C / 68,0 °F)
<b>Relative density</b>	not determined
<b>Bulk density [kg/m³]</b>	not applicable
<b>Solubility in water [g/L]</b>	virtually insoluble
<b>Solubility other solvents</b>	No information available.
<b>Partition coefficient n-octanol/water (log value)</b>	not determined
<b>Kinematic viscosity</b>	> 20,5 mm²/s (40°C)
<b>Relative vapour density</b>	not relevant
<b>Melting point [°C]</b>	not determined
<b>Auto-ignition temperature [°C]</b>	not self-igniting
<b>Decomposition temperature [°C]</b>	not determined
<b>Particle characteristics</b>	not applicable

### 9.2 Other information

none

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## **SECTION 10: Stability and reactivity**

### **10.1 Reactivity**

No dangerous reactions known if used as directed.

### **10.2 Chemical stability**

The product is stable under standard conditions.

### **10.3 Possibility of hazardous reactions**

No hazardous reactions known.

### **10.4 Conditions to avoid**

See SECTION 7

### **10.5 Incompatible materials**

Strong oxidizing agent.

### **10.6 Hazardous decomposition products**

No hazardous decomposition products known.

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## SECTION 11: Toxicological information

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

**Acute oral toxicity** Based on the available information, the classification criteria are not fulfilled.

Product
ATE-mix, oral, > 2000 mg/kg
Substance
Dilithium azelate, CAS: 38900-29-7
LD50, oral, Rat, 300 mg/kg bw
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene, CAS: 68411-46-1
LC50, oral, Rat, > 5000 mg/kg, OECD 401

**Acute dermal toxicity** Based on the available information, the classification criteria are not fulfilled.

Product
ATE-mix, dermal, > 2000 mg/kg
Substance
Dilithium azelate, CAS: 38900-29-7
LD50, dermal, Rat, > 2000 mg/kg bw
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene, CAS: 68411-46-1
LD50, dermal, Rat, > 2000 mg/kg, OECD 402

**Acute inhalational toxicity** Based on the available information, the classification criteria are not fulfilled.

Product
ATE-mix, inhalativ (mist), > 5 mg/l 4h

**Serious eye damage/irritation** Based on the available information, the classification criteria are not fulfilled.

Substance
Dilithium azelate, CAS: 38900-29-7
Rabbit, OECD 405, non-irritating
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene, CAS: 68411-46-1
Eye, OECD 405, non-irritating

**Skin corrosion/irritation** Based on the available information, the classification criteria are not fulfilled.

Substance
Dilithium azelate, CAS: 38900-29-7
dermal, OECD 431, non-irritating
OECD 439, non-irritating
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene, CAS: 68411-46-1
dermal, non-irritating

**Respiratory or skin sensitisation** Based on the available information, the classification criteria are not fulfilled.

Substance
Dilithium azelate, CAS: 38900-29-7
dermal, mouse, OECD 429, non-sensitizing
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene, CAS: 68411-46-1
dermal, Guinea pig, OECD 406, non-sensitizing

**Specific target organ toxicity — single exposure** Based on the available information, the classification criteria are not fulfilled.

**Specific target organ toxicity — repeated exposure** Based on the available information, the classification criteria are not fulfilled.

Substance
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Dilithium azelate, CAS: 38900-29-7

NOAEL, dermal, Rat, 298 mg/kg bw/day (systemic effects), no adverse effect observed

NOAEL, dermal, Rat, 230 µg/cm<sup>2</sup> (local effects), adverse effect observed

**Mutagenicity**

Based on the available information, the classification criteria are not fulfilled.

Substance

Dilithium azelate, CAS: 38900-29-7

OECD 471, no adverse effect observed

Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene, CAS: 68411-46-1

in vitro, negative

**Reproduction toxicity**

Based on the available information, the classification criteria are not fulfilled.

**- Fertility**

Substance

Dilithium azelate, CAS: 38900-29-7

NOAEL, Rat, 298,5 mg/kg bw/d (Effect on fertility), no adverse effect observed

Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene, CAS: 68411-46-1

NOAEL, oral, Rat, 54 mg/kg bw/day, adverse effect observed

**- Development**

Substance

Dilithium azelate, CAS: 38900-29-7

NOAEL, Rat, 298,5 mg/kg bw/d (Effect on developmental toxicity), no adverse effect observed

**Carcinogenicity**

Based on the available information, the classification criteria are not fulfilled.

**Aspiration hazard**

Based on the available information, the classification criteria are not fulfilled.

**General remarks**

Toxicological data of complete product are not available.  
The toxicity data listed pertaining to the ingredients are intended for those working in the medicinal professions, experts for occupational health and safety and toxicologists.

**11.2 Information on other hazards**

**11.2.1 Endocrine disrupting properties**

Does not contain a relevant substance that meets the classification criteria.

**11.2.2 Other information**

none

**SECTION 12: Ecological information**

**12.1 Toxicity**

Product

Based on the available information, the classification criteria are not fulfilled.

Substance

Dilithium azelate, CAS: 38900-29-7

LC50, (96h), Fish, 100 mg/L, OECD 203

EC50, (48h), Crustacea, 100 mg/L, OECD 202

EC50, (72h), Algae, 100 mg/L, OECD 201

Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene, CAS: 68411-46-1

LC50, (96h), Fish, > 100 mg/l, OECD 203

EC50, (72h), Algae, > 100 mg/l, OECD 201

EC50, (48h), Daphnia magna, 51 mg/l, OECD 202

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## 12.2 Persistence and degradability

<b>Behaviour in environment compartments</b>	not determined
<b>Behaviour in sewage plant</b>	not determined
<b>Biological degradability</b>	The product is not readily biodegradable.

Substance
Dilithium azelate, CAS: 38900-29-7
OECD 301 D, Inherently biologically degradable
Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene, CAS: 68411-46-1
The product is not readily biodegradable.

## 12.3 Bioaccumulative potential

No information available.

## 12.4 Mobility in soil

Adsorbed into soil.

## 12.5 Results of PBT and vPvB assessment

Based on all available information not to be classified as PBT or vPvB respectively.  
Under evaluation (ECHA, PBT assessment list): CAS 68411-46-1

## 12.6 Endocrine disrupting properties

Does not contain a relevant substance that meets the classification criteria.

## 12.7 Other adverse effects

None known.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

#### Product

Coordinate disposal with the authorities if necessary.  
Disposal in an incineration plant in accordance with the regulations of the local authorities.

#### Waste no. (recommended)

130899\*

#### Contaminated packaging

Uncontaminated packaging may be reused.  
Packaging that cannot be cleaned should be disposed of as for product.

#### Waste no. (recommended)

150110\* packaging containing residues of or contaminated by hazardous substances

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#### SECTION 14: Transport information

##### 14.1 UN number or ID number

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA not applicable

##### 14.2 UN proper shipping name

Transport by land according to ADR/RID NO DANGEROUS GOODS

Inland navigation (ADN) NO DANGEROUS GOODS

Marine transport in accordance with IMDG NOT CLASSIFIED AS "DANGEROUS GOODS"

Air transport in accordance with IATA NOT CLASSIFIED AS "DANGEROUS GOODS"

##### 14.3 Transport hazard class(es)

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA not applicable

##### 14.4 Packing group

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA not applicable

##### 14.5 Environmental hazards

Transport by land according to ADR/RID no

Inland navigation (ADN) no

Marine transport in accordance with IMDG no

Air transport in accordance with IATA no

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#### 14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

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

not applicable

### SECTION 15: Regulatory information

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

<b>EEC-REGULATIONS</b>	2008/98/EG (2000/532/EC ); 2010/75/EU; 2004/42/EG; (EG) 648/2004; (EC) 1907/2006 (REACH); (EU) 1272/2008; 75/324/EWG ((EC) 2016/2037); (EU) 2020/878; (EU) 2016/131; (EU) 2024/573; (EU) 2019/1148; (EU) 2019/1021, (EU) 2023/707
- <b>Comment on component parts</b>	Substances of Very High Concern - SVHC: substances are not contained or are below 0.1%.
- <b>Annex XIV (REACH)</b>	According to Annex XIV of Regulation (EC) 1907/2006 (REACH) the product does not contain any substances $\geq$ 0.1% that are subject to authorisation.
- <b>Annex XVII (REACH)</b>	According to Annex XVII of Regulation (EC) 1907/2006 (REACH) the product contains $\geq$ 0.1% of substances with the following restrictions. 75
<b>TRANSPORT-REGULATIONS</b>	ADR (2025); IMDG-Code (2025, 42. Amdt.); IATA-DGR (2026, 67th Edition)
<b>NATIONAL REGULATIONS (UK):</b>	EH40/2005 Workplace exposure limits (Second edition, published December 2011); UK REACH; GB CLP.
- <b>Observe employment restrictions for people</b>	no
- <b>VOC (2010/75/CE)</b>	not applicable

#### 15.2 Chemical safety assessment

For this product a chemical safety assessment has not been carried out.

### SECTION 16: Other information

#### 16.1 Hazard statements (SECTION 3)

H412 Harmful to aquatic life with long lasting effects.  
H361f Suspected of damaging fertility.  
H302 Harmful if swallowed.

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## 16.2 Abbreviations and acronyms:

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route  
RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses  
ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure  
ATE = acute toxicity estimate  
CAS = Chemical Abstracts Service  
CLP = Classification, Labelling and Packaging  
DMEL = Derived Minimum Effect Level  
DNEL = Derived No Effect Level  
EC50 = Median effective concentration  
ECB = European Chemicals Bureau  
EEC = European Economic Community  
EINECS = European Inventory of Existing Commercial Chemical Substances  
EL50 = Median effective loading  
ELINCS = European List of Notified Chemical Substances  
EmS = Emergency Schedules  
GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
IATA = International Air Transport Association  
IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk  
IC50 = Inhibition concentration, 50%  
IMDG = International Maritime Code for Dangerous Goods  
IUCLID = International Uniform Chemical Information Database  
IVIS = In vitro irritation score  
LC50 = Lethal concentration, 50%  
LD50 = Median lethal dose  
LC0 = lethal concentration, 0%  
LOAEL = lowest-observed-adverse-effect level  
LL50 = Median lethal loading  
LQ = Limited Quantities  
MARPOL = International Convention for the Prevention of Marine Pollution from Ships  
NOAEL = No Observed Adverse Effect Level  
NOEC = No Observed Effect Concentration  
PBT = Persistent, Bioaccumulative and Toxic substance  
PNEC = Predicted No-Effect Concentration  
REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals  
STP = Sewage Treatment Plant  
TLV@/TWA = Threshold limit value – time-weighted average  
TLV@STEL = Threshold limit value – short-time exposure limit  
VOC = Volatile Organic Compounds  
vPvB = very Persistent and very Bioaccumulative

## 16.3 Other information

Modified position none

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