

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 - EE  
(Commission Regulation (EU) 2020/878)

**KLÜBER**  
LUBRICATION

## SYNTHESO GLEP 1

Version	Revision Date:	Date of last issue: 22.02.2021	Print Date:
5.4	25.08.2021	Date of first issue: 19.06.2015	25.08.2021

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

#### 1.1 Product identifier

Product name : SYNTHESO GLEP 1  
Article-No. : 012142

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

Use of the Sub-  
stance/Mixture : Grease  
Recommended restrictions : Restricted to professional users.  
on use

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

Company : Klüber Lubrication München  
Geisenhausenerstr. 7  
81379 München  
Deutschland  
Tel: +49 (0) 89 7876 0  
Fax: +49 (0) 89 7876 333  
info@klueber.com  
E-mail address of person  
responsible for the SDS : mcm@klueber.com  
Material Compliance Management  
National contact : Klüber Lubrication Nordic A/S  
c/o Azets Insight Oy  
Elielinaukio 5 B  
00100 Helsinki  
Finland  
Tel: +358 207 497 970  
Fax: +358 207 497 970  
klueber.fi@fi.klueber.com

#### 1.4 Emergency telephone number

Emergency telephone num-  
ber : +49 89 7876 700 (24 hrs)

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification (REGULATION (EC) No 1272/2008)

Skin sensitisation, Category 1 H317: May cause an allergic skin reaction.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 - EE  
(Commission Regulation (EU) 2020/878)


**KLUBER**  
LUBRICATION

## SYNTHESES GLEP 1

Version	Revision Date:	Date of last issue: 22.02.2021	Print Date:
5.4	25.08.2021	Date of first issue: 19.06.2015	25.08.2021

### 2.2 Label elements

#### Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms : 

Signal word : Warning

Hazard statements : H317 May cause an allergic skin reaction.

Precautionary statements : **Prevention:**  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P280 Wear protective gloves.  
**Response:**  
P302 + P352 IF ON SKIN: Wash with plenty of water.  
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.  
P362 + P364 Take off contaminated clothing and wash it before reuse.

#### Hazardous components which must be listed on the label:

Condensation products of fatty acids, tall oil with 2-amino-2-ethylpropanediol

### 2.3 Other 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.

Ecological information: 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.

Toxicological information: 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.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

Chemical nature : polyalkylene glycol oil  
special lithium soap

#### Components

Chemical name	CAS-No. EC-No.	Classification	specific concentration limit	Concentration (% w/w)
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# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 - EE  
(Commission Regulation (EU) 2020/878)

**KLUBER**  
LUBRICATION

## SYNTHESES GLEP 1

Version 5.4      Revision Date: 25.08.2021      Date of last issue: 22.02.2021      Print Date: 25.08.2021  
Date of first issue: 19.06.2015

	Index-No. Registration number		M-Factor Notes Acute toxicity estimate	
dilithium azelate	38900-29-7 254-184-4  01-2120119814-57-XXXX 01-2120119814-57-XXXX 01-2120119814-57-XXXX 01-2120119814-57-XXXX	Acute Tox.4; H302		>= 1 - < 10
Condensation products of fatty acids, tall oil with 2-amino-2-ethylpropanediol	946-010-7  01-2120770934-44-XXXX	Skin Sens.1; H317		>= 1 - < 10

For explanation of abbreviations see section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

- If inhaled : Remove person to fresh air. If signs/symptoms continue, get medical attention.  
Keep patient warm and at rest.  
If unconscious, place in recovery position and seek medical advice.  
Keep respiratory tract clear.  
If breathing is irregular or stopped, administer artificial respiration.
- In case of skin contact : Take off all contaminated clothing immediately.  
Wash off immediately with soap and plenty of water.  
Get medical attention immediately if irritation develops and persists.  
Wash clothing before reuse.  
Thoroughly clean shoes before reuse.
- In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 10 minutes.  
If eye irritation persists, consult a specialist.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 - EE  
(Commission Regulation (EU) 2020/878)

**KLUBER**  
LUBRICATION

## SYNTHESO GLEP 1

Version	Revision Date:	Date of last issue: 22.02.2021	Print Date:
5.4	25.08.2021	Date of first issue: 19.06.2015	25.08.2021

If swallowed : Move the victim to fresh air.  
If unconscious, place in recovery position and seek medical advice.  
Keep respiratory tract clear.  
Do not induce vomiting without medical advice.  
Never give anything by mouth to an unconscious person.

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

Symptoms : Allergic appearance  
Risks : May cause an allergic skin reaction.

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

Treatment : The first aid procedure should be established in consultation with the doctor responsible for industrial medicine.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.  
Unsuitable extinguishing media : High volume water jet

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

Hazardous combustion products : Carbon oxides  
Nitrogen oxides (NO<sub>x</sub>)  
Sulphur oxides  
Oxides of phosphorus  
Metal oxides

### 5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment. Exposure to decomposition products may be a hazard to health.  
Further information : Standard procedure for chemical fires.

## SECTION 6: Accidental release measures

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

Personal precautions : Evacuate personnel to safe areas.  
Use the indicated respiratory protection if the occupational exposure limit is exceeded and/or in case of product release

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 - EE  
(Commission Regulation (EU) 2020/878)

**KLUBER**  
LUBRICATION

## SYNTHESO GLEP 1

Version	Revision Date:	Date of last issue: 22.02.2021	Print Date:
5.4	25.08.2021	Date of first issue: 19.06.2015	25.08.2021

(dust).  
Do not breathe vapours, aerosols.  
Refer to protective measures listed in sections 7 and 8.

### 6.2 Environmental precautions

Environmental precautions : Try to prevent the material from entering drains or water courses.  
Local authorities should be advised if significant spillages cannot be contained.

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

Methods for cleaning up : Clean up promptly by sweeping or vacuum.  
Keep in suitable, closed containers for disposal.

### 6.4 Reference to other sections

For personal protection see section 8.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Advice on safe handling : Avoid contact with skin and eyes.  
For personal protection see section 8.  
Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.  
Smoking, eating and drinking should be prohibited in the application area.  
Wash hands and face before breaks and immediately after handling the product.  
Do not get in eyes or mouth or on skin.  
Do not get on skin or clothing.  
Do not ingest.  
Do not repack.  
These safety instructions also apply to empty packaging which may still contain product residues.  
Keep container closed when not in use.

Hygiene measures : Wash face, hands and any exposed skin thoroughly after handling.

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

Requirements for storage areas and containers : Store in original container. Keep container closed when not in use. Keep in a dry, cool and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store in accordance with the particular national regulations. Keep in properly labelled containers.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 - EE  
(Commission Regulation (EU) 2020/878)

**KLUBER**  
LUBRICATION

## SYNTHESO GLEP 1

Version 5.4      Revision Date: 25.08.2021      Date of last issue: 22.02.2021      Print Date: 25.08.2021  
Date of first issue: 19.06.2015

### 7.3 Specific end use(s)

Specific use(s) : Specific instructions for handling, not required.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

Contains no substances with occupational exposure limit values.

#### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
dilithium azelate	Workers	Dermal	Long-term systemic effects	13,5 mg/kg bw/day
	Workers	Dermal	Long-term local effects	0,172 mg/cm <sup>2</sup>
Condensation products of fatty acids, tall oil with 2-amino-2-ethylpropanediol	Workers	Dermal	Long-term systemic effects	8,33 mg/kg bw/day
bis(4-(1,1,3,3-tetramethylbutyl)phenyl)amine	Workers	Inhalation	Long-term systemic effects	4,11 mg/m <sup>3</sup>
	Workers	Skin contact	Long-term systemic effects	1,17 mg/kg bw/day
O,O,O-triphenyl phosphorothioate	Workers	Inhalation	Long-term systemic effects	1,39 mg/m <sup>3</sup>
	Workers	Skin contact	Long-term systemic effects	0,4 mg/kg

#### Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
dilithium azelate	Fresh water	0,023 mg/l
	Marine water	0,002 mg/l
bis(4-(1,1,3,3-tetramethylbutyl)phenyl)amine	Fresh water	0,00002 µg/l
	Marine water	0,000002 µg/l
	Fresh water sediment	0,00467 mg/kg
	Marine sediment	0,000467 mg/kg
O,O,O-triphenyl phosphorothioate	Soil	0,000934 mg/kg
	Sewage treatment plant	1 mg/l
	Soil	2,37 mg/l

### 8.2 Exposure controls

#### Engineering measures

none

#### Personal protective equipment

Eye protection : Safety glasses with side-shields

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 - EE  
(Commission Regulation (EU) 2020/878)

**KLUBER**  
LUBRICATION

## SYNTHESO GLEP 1

Version	Revision Date:	Date of last issue: 22.02.2021	Print Date:
5.4	25.08.2021	Date of first issue: 19.06.2015	25.08.2021

### Hand protection

Material : Nitrile rubber  
Break through time : > 10 min  
Protective index : Class 1

### Remarks

: Wear protective gloves. The break through time depends amongst other things on the material, the thickness and the type of glove and therefore has to be measured for each case.  
The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.

### Respiratory protection

: Not required; except in case of aerosol formation.

### Filter type

: Filter type P

### Protective measures

: The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.  
Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state : paste  
Colour : beige  
Odour : characteristic  
Odour Threshold : No data available  
Melting point/range : No data available  
Boiling point/boiling range : No data available  
Flammability : Combustible Solids  
Upper explosion limit / Upper flammability limit : No data available  
Lower explosion limit / Lower flammability limit : No data available

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 - EE  
(Commission Regulation (EU) 2020/878)

**KLUBER**  
LUBRICATION

## SYNTHESO GLEP 1

Version	Revision Date:	Date of last issue: 22.02.2021	Print Date:
5.4	25.08.2021	Date of first issue: 19.06.2015	25.08.2021

Flash point : Not applicable

Auto-ignition temperature : No data available

Decomposition temperature  
Decomposition temperature : No data available

pH : Not applicable  
substance/mixture is non-soluble (in water)

Viscosity  
Viscosity, dynamic : No data available

Viscosity, kinematic : Not applicable

Solubility(ies)  
Water solubility : insoluble

Solubility in other solvents : No data available

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

Vapour pressure : < 0,001 hPa (20 °C)

Relative density : 0,97 (20 °C)  
Reference substance: Water  
The value is calculated

Density : 0,97 g/cm<sup>3</sup>  
(20 °C)

Bulk density : No data available

Relative vapour density : No data available

### 9.2 Other information

Explosives : Not explosive

Oxidizing properties : No data available

Self-ignition : No data available

Evaporation rate : No data available

Sublimation point : No data available



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 - EE  
(Commission Regulation (EU) 2020/878)

**KLUBER**  
LUBRICATION

## SYNTHESO GLEP 1

Version	Revision Date:	Date of last issue: 22.02.2021	Print Date:
5.4	25.08.2021	Date of first issue: 19.06.2015	25.08.2021

### SECTION 10: Stability and reactivity

#### 10.1 Reactivity

No hazards to be specially mentioned.

#### 10.2 Chemical stability

Stable under normal conditions.

#### 10.3 Possibility of hazardous reactions

Hazardous reactions : No dangerous reaction known under conditions of normal use.

#### 10.4 Conditions to avoid

Conditions to avoid : No conditions to be specially mentioned.

#### 10.5 Incompatible materials

Materials to avoid : No materials to be especially mentioned.

#### 10.6 Hazardous decomposition products

No decomposition if stored and applied as directed.

### SECTION 11: Toxicological information

#### 11.1 Information on toxicological effects

##### Acute toxicity

##### Product:

Acute oral toxicity : Acute toxicity estimate: > 2.000 mg/kg  
Method: Calculation method

Acute inhalation toxicity : Remarks: This information is not available.

Acute dermal toxicity : Symptoms: Redness, Local irritation

##### Components:

##### **dilithium azelate:**

Acute oral toxicity : LD50 (Rat): > 300 mg/kg  
Method: OECD Test Guideline 420  
GLP: yes

Acute dermal toxicity : LD50 (Rabbit): > 2.000 mg/kg  
Assessment: The substance or mixture has no acute dermal toxicity

##### **Condensation products of fatty acids, tall oil with 2-amino-2-ethylpropanediol:**

Acute oral toxicity : LD50 (Rat): > 2.000 mg/kg

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 - EE  
(Commission Regulation (EU) 2020/878)

**KLUBER**  
LUBRICATION

## SYNTHESE GLEP 1

Version	Revision Date:	Date of last issue: 22.02.2021	Print Date:
5.4	25.08.2021	Date of first issue: 19.06.2015	25.08.2021

Method: OECD Test Guideline 425  
Assessment: The substance or mixture has no acute oral toxicity

Acute dermal toxicity : LD50 (Rat): > 2.000 mg/kg  
Method: OECD Test Guideline 402  
Assessment: The substance or mixture has no acute dermal toxicity

### Skin corrosion/irritation

#### Product:

Remarks : This information is not available.

#### Components:

##### dilithium azelate:

Assessment : No skin irritation  
Result : No skin irritation

### Condensation products of fatty acids, tall oil with 2-amino-2-ethylpropanediol:

Species : reconstructed human epidermis (RhE)  
Assessment : No skin irritation  
Result : No skin irritation

### Serious eye damage/eye irritation

#### Product:

Remarks : This information is not available.

#### Components:

##### dilithium azelate:

Species : Rabbit  
Assessment : No eye irritation  
Result : No eye irritation

### Condensation products of fatty acids, tall oil with 2-amino-2-ethylpropanediol:

Species : Rabbit  
Assessment : No eye irritation  
Result : No eye irritation

### Respiratory or skin sensitisation

#### Product:

Remarks : This information is not available.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 - EE  
(Commission Regulation (EU) 2020/878)

**KLUBER**  
LUBRICATION

## SYNTHESO GLEP 1

Version	Revision Date:	Date of last issue: 22.02.2021	Print Date:
5.4	25.08.2021	Date of first issue: 19.06.2015	25.08.2021

### Components:

#### **dilithium azelate:**

Assessment : Does not cause skin sensitisation.  
Result : Does not cause skin sensitisation.

#### **Condensation products of fatty acids, tall oil with 2-amino-2-ethylpropanediol:**

Assessment : May cause sensitisation by skin contact.  
Result : May cause sensitisation by skin contact.

### **Germ cell mutagenicity**

#### Product:

Genotoxicity in vitro : Remarks: No data available

Genotoxicity in vivo : Remarks: No data available

### Components:

#### **Condensation products of fatty acids, tall oil with 2-amino-2-ethylpropanediol:**

Genotoxicity in vitro : Remarks: In vitro tests did not show mutagenic effects

### **Carcinogenicity**

#### Product:

Remarks : No data available

### **Reproductive toxicity**

#### Product:

Effects on fertility : Remarks: No data available

Effects on foetal development : Remarks: No data available

### Components:

#### **Condensation products of fatty acids, tall oil with 2-amino-2-ethylpropanediol:**

Reproductive toxicity - Assessment : - Fertility -  
Animal testing did not show any effects on fertility.

### **STOT - single exposure**

#### Components:

#### **dilithium azelate:**

Assessment : The substance or mixture is not classified as specific target organ toxicant, single exposure.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 - EE  
(Commission Regulation (EU) 2020/878)

**KLÜBER**  
LUBRICATION

## SYNTHESES GLEP 1

Version	Revision Date:	Date of last issue: 22.02.2021	Print Date:
5.4	25.08.2021	Date of first issue: 19.06.2015	25.08.2021

### STOT - repeated exposure

#### Components:

##### dilithium azelate:

Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

### Repeated dose toxicity

#### Product:

Remarks : This information is not available.

### Aspiration toxicity

#### Product:

This information is not available.

#### Components:

##### dilithium azelate:

No aspiration toxicity classification

### Further information

#### Product:

Remarks : Information given is based on data on the components and the toxicology of similar products.

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## SECTION 12: Ecological information

### 12.1 Toxicity

#### Product:

Toxicity to fish : Remarks: No data available

Toxicity to daphnia and other aquatic invertebrates : Remarks: No data available

Toxicity to algae/aquatic plants : Remarks: No data available

Toxicity to microorganisms : Remarks: No data available

#### Components:

##### dilithium azelate:

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 - EE  
(Commission Regulation (EU) 2020/878)

**KLUBER**  
LUBRICATION

## SYNTHESO GLEP 1

Version	Revision Date:	Date of last issue: 22.02.2021	Print Date:
5.4	25.08.2021	Date of first issue: 19.06.2015	25.08.2021

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l  
Exposure time: 48 h

### 12.2 Persistence and degradability

#### Product:

Biodegradability : Remarks: No data available

Physico-chemical removability : Remarks: No data available

#### Components:

##### **Condensation products of fatty acids, tall oil with 2-amino-2-ethylpropanediol:**

Biodegradability : Result: Not rapidly biodegradable

### 12.3 Bioaccumulative potential

#### Product:

Bioaccumulation : Remarks: This mixture contains no substance considered to be persistent, bioaccumulating and toxic (PBT).  
This mixture contains no substance considered to be very persistent and very bioaccumulating (vPvB).

#### Components:

##### **dilithium azelate:**

Bioaccumulation : Bioconcentration factor (BCF): 3,0

Partition coefficient: n-octanol/water : log Pow: -3,56

##### **Condensation products of fatty acids, tall oil with 2-amino-2-ethylpropanediol:**

Bioaccumulation : Bioconcentration factor (BCF): < 100

Partition coefficient: n-octanol/water : log Pow: 9,01

### 12.4 Mobility in soil

#### Product:

Mobility : Remarks: No data available

Distribution among environmental compartments : Remarks: No data available

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 - EE  
(Commission Regulation (EU) 2020/878)



## SYNTHESO GLEP 1

Version	Revision Date:	Date of last issue: 22.02.2021	Print Date:
5.4	25.08.2021	Date of first issue: 19.06.2015	25.08.2021

### 12.5 Results of PBT and vPvB assessment

**Product:**

Assessment : 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..

### 12.6 Endocrine disrupting properties

**Product:**

Assessment : 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.

### 12.7 Other adverse effects

**Product:**

Additional ecological information : No information on ecology is available.

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : The product should not be allowed to enter drains, water courses or the soil.  
Do not dispose of with domestic refuse.  
Dispose of as hazardous waste in compliance with local and national regulations.

Waste codes should be assigned by the user based on the application for which the product was used.

Contaminated packaging : Packaging that is not properly emptied must be disposed of as the unused product.  
Dispose of waste product or used containers according to local regulations.

The following Waste Codes are only suggestions:

Waste Code : used product, unused product  
12 01 12\*, spent waxes and fats  
  
uncleaned packagings  
15 01 10, packaging containing residues of or contaminated by hazardous substances

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 - EE  
(Commission Regulation (EU) 2020/878)

**KLUBER**  
LUBRICATION

## SYNTHESO GLEP 1

Version	Revision Date:	Date of last issue: 22.02.2021	Print Date:
5.4	25.08.2021	Date of first issue: 19.06.2015	25.08.2021

### SECTION 14: Transport information

#### 14.1 UN number or ID number

Not regulated as a dangerous good

#### 14.2 UN proper shipping name

Not regulated as a dangerous good

#### 14.3 Transport hazard class(es)

Not regulated as a dangerous good

#### 14.4 Packing group

Not regulated as a dangerous good

#### 14.5 Environmental hazards

Not regulated as a dangerous good

#### 14.6 Special precautions for user

Not applicable

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

Remarks : Not applicable for product as supplied.

### SECTION 15: Regulatory information

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

- REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII) : Not applicable
- REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). (EU SVHC) : This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57).
- REACH - List of substances subject to authorisation (Annex XIV) (EU. REACH - Annex XIV) : Not applicable
- Regulation (EC) No 1005/2009 on substances that deplete the ozone layer (EC 1005/2009) : Not applicable
- Regulation (EU) 2019/1021 on persistent organic pollutants (recast) (EU POP) : Not applicable
- Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Not applicable

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 - EE  
(Commission Regulation (EU) 2020/878)



## SYNTHEO GLEP 1

Version	Revision Date:	Date of last issue: 22.02.2021	Print Date:
5.4	25.08.2021	Date of first issue: 19.06.2015	25.08.2021

(EU PIC)

Regulation (EU) 2019/1148 on the marketing and use of explosives precursors : Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. : Not applicable

Volatile organic compounds : Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)  
Volatile organic compounds (VOC) content: 2,03 %

### Other regulations:

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

### 15.2 Chemical safety assessment

This information is not available.

## SECTION 16: Other information

### Full text of H-Statements

H302 : Harmful if swallowed.  
H317 : May cause an allergic skin reaction.

### Full text of other abbreviations

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; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 - EE  
(Commission Regulation (EU) 2020/878)



## SYNTHESO GLEP 1

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test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

### Further information

#### Classification of the mixture:

Skin Sens. 1                      H317

#### Classification procedure:

Calculation method

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