

# ARDEX K 511 Component

A



## Safety Data Sheet

according to Regulation on Registration, Evaluation, Authorization and Restriction of Chemicals published in the Official Journal numbered 30105 on June 23, 2017

Issue date: 2/21/2022

Revision date: 10/1/2025

Supersedes: 11/21/2022

Version: 3.0

www.ardex.com.tr

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

### 1.1. Product identifier

Product form : Mixture  
Product name : ARDEX K 511 Component A  
Product code : 40069

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

Main use category : Professional use  
Use of the substance/mixture : Floor Levelling Compounds

Function or use category : Construction materials

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

#### Manufacturer

ARDEX Yapi Malzemeleri Limited Sirketi  
İstanbul Deri Organize Sanayi Bölgesi  
Desen Sok. No:14/A C1 Özel Parsel  
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### 1.4. Emergency telephone number

| Country | Organisation/Company | Address | Emergency number | Comment |
|---------|----------------------|---------|------------------|---------|
| Türkiye | Acil durum numarası  |         | 114              |         |

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

Classification according to Classification, Labelling and Packaging of Substances and Mixtures (SEA) Regulation published in the Official Journal numbered 28848 on December 11, 2013.

Serious eye damage/eye irritation, Category 2 H319  
Skin sensitisation, Category 1 H317  
Full text of H-statements: see section 16  
Adverse physicochemical, human health and environmental effects : Causes serious eye irritation.

### 2.2. Label elements

Classification according to Classification, Labelling and Packaging of Substances and Mixtures (SEA) Regulation published in the Official Journal numbered 28848 on December 11, 2013.

Hazard pictograms (SEA) :



GHS07

Signal word (SEA) : Warning



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|                                |   |
|--------------------------------|---|
| Hazardous ingredients          | : Portland cement   |
| Hazard statements (SEA)        | : H317 - May cause an allergic skin reaction.<br>H319 - Causes serious eye irritation.  |
| Precautionary statements (SEA) | : P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.<br>P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.<br>P280 - Wear protective gloves/protective clothing/eye protection/face protection.<br>P102 - Keep out of reach of children.<br>P302+P352 - IF ON SKIN: Wash with plenty of water. |
| Extra phrases                  | : Dispose of the container and contents in the set state in accordance with applicable local/regional/national/international regulations.   |

### 2.3. Other hazards

#### Other hazards not contributing to the classification

PBT: not relevant – no registration required  
vPvB: not relevant – no registration required

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

| Name   | Product identifier                       | %       | Classification according to Classification, Labelling and Packaging of Substances and Mixtures (SEA) Regulation published in the Official Journal numbered 28848 on December 11, 2013. |
|--|--|---------|--|
| quartz, conc respirable crystalline silica<1 % | CAS-No.: 14808-60-7<br>EC-No.: 238-878-4 | 40 - 60 | Not classified   |
| Portland cement                                | CAS-No.: 65997-15-1<br>EC-No.: 266-043-4 | 1 - 3   | Skin Irrit. 2, H315<br>Eye Dam. 1, H318<br>Skin Sens. 1, H317<br>STOT SE 3, H335   |
| lithium-carbonate                              | CAS-No.: 554-13-2<br>EC-No.: 209-062-5   | < 0.1   | Acute Tox. 4 (Oral), H302  |

Full text of H-statements: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

|                                       |  |
|---------------------------------------|--|
| First-aid measures after inhalation   | : Remove person to fresh air and keep comfortable for breathing.   |
| First-aid measures after skin contact | : Wash skin with plenty of water. Take off contaminated clothing. If skin irritation occurs: Get medical advice/attention.                           |
| First-aid measures after eye contact  | : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately. |
| First-aid measures after ingestion    | : If the person is fully conscious, make him/her drink plenty of water. Never give an unconscious person anything to drink. Do not induce vomiting.  |

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

|                                     |                           |
|-------------------------------------|---------------------------|
| Symptoms/effects after skin contact | : Irritation.             |
| Symptoms/effects after eye contact  | : Serious damage to eyes. |



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### 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 : Use extinguishing media appropriate for surrounding fire.  
Unsuitable extinguishing media : high volume water jet.

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

Fire hazard : No fire hazard.  
Explosion hazard : None.  
Hazardous decomposition products in case of fire : None.

### 5.3. Advice for firefighters

Precautionary measures fire : No specific measures are necessary.  
Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

## SECTION 6: Accidental release measures

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

General measures : Absorb spillage to prevent material damage.

#### 6.1.1. For non-emergency personnel

Protective equipment : Precautions for safe handling. See Section 7.  
Emergency procedures : Avoid contact with skin and eyes.

#### 6.1.2. For emergency responders

Emergency procedures : No specific measures are necessary.

### 6.2. Environmental precautions

Prevent entry to sewers and public waters.

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

For containment : Collect spillage.  
Methods for cleaning up : Mechanically recover the product. Minimise generation of dust. Collect spillage. Do not use compressed air for cleaning.

### 6.4. Reference to other sections

For further information refer to section 13. See Section 8.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Additional hazards when processed : See Section 8. When mixing the components: Please note the safety data sheet for the second component.  
Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal protective equipment.  
Hygiene measures : Wear protective gloves. Do not eat, drink or smoke when using this product.



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

Storage conditions : Protect from moisture. Store in a dry place.  
Incompatible materials : Aluminium. ammonium salts. Acids.  
Storage area : dry.

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### calcium sulfate (10101-41-4)

##### DNEL/DMEL (Workers)

|  |  |
|--|--|
| Acute - systemic effects, inhalation     | 5082 mg/m <sup>3</sup> (Anhydrous form, Experimental value)  |
| Long-term - systemic effects, inhalation | 21.17 mg/m <sup>3</sup> (Anhydrous form, Experimental value) |

##### DNEL/DMEL (General population)

|  |   |
|--|---|
| Acute - systemic effects, inhalation     | 3811 mg/m <sup>3</sup> (Anhydrous form, Experimental value) |
| Acute - systemic effects, oral           | 11.4 mg/kg bw/day (Anhydrous form, Experimental value)      |
| Long-term - systemic effects, oral       | 1.52 mg/kg bw/day (Anhydrous form, Experimental value)      |
| Long-term - systemic effects, inhalation | 5.29 mg/m <sup>3</sup> (Anhydrous form, Experimental value) |

##### PNEC (STP)

|                             |          |
|-----------------------------|----------|
| PNEC sewage treatment plant | 100 mg/l |
|-----------------------------|----------|

#### lithium-carbonate (554-13-2)

##### DNEL/DMEL (Workers)

|  |                      |
|--|----------------------|
| Acute - systemic effects, dermal         | 100 mg/kg bw/day     |
| Acute - systemic effects, inhalation     | 30 mg/m <sup>3</sup> |
| Long-term - systemic effects, dermal     | 64.3 mg/kg bw/day    |
| Long-term - systemic effects, inhalation | 10 mg/m <sup>3</sup> |

##### DNEL/DMEL (General population)

|  |                         |
|--|-------------------------|
| Acute - systemic effects, dermal         | 50 mg/kg bw/day         |
| Acute - systemic effects, inhalation     | 28.92 mg/m <sup>3</sup> |
| Acute - systemic effects, oral           | 19.23 mg/kg bw/day      |
| Long-term - systemic effects, oral       | 6.43 mg/kg bw/day       |
| Long-term - systemic effects, inhalation | 9.64 mg/m <sup>3</sup>  |
| Long-term - systemic effects, dermal     | 64.3 mg/kg bw/day       |

##### PNEC (Water)

|                          |          |
|--------------------------|----------|
| PNEC aqua (freshwater)   | 9 mg/l   |
| PNEC aqua (marine water) | 0.9 mg/l |

##### PNEC (Sediment)

|                              |                 |
|------------------------------|-----------------|
| PNEC sediment (freshwater)   | 238.4 mg/kg dwt |
| PNEC sediment (marine water) | 23.84 mg/kg dwt |



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### lithium-carbonate (554-13-2)

#### PNEC (Soil)

PNEC soil 44.11 mg/kg dwt

#### PNEC (STP)

PNEC sewage treatment plant 122.2 mg/l

### calcium hydroxide (1305-62-0)

#### DNEL/DMEL (Workers)

Acute - local effects, inhalation 4 mg/m<sup>3</sup>

Long-term - local effects, inhalation 1 mg/m<sup>3</sup>

#### DNEL/DMEL (General population)

Acute - local effects, inhalation 4 mg/m<sup>3</sup>

Long-term - local effects, inhalation 1 mg/m<sup>3</sup>

#### PNEC (Water)

PNEC aqua (freshwater) 0.49 mg/l

PNEC aqua (marine water) 0.32 mg/l

#### PNEC (Soil)

PNEC soil 1080 mg/kg dwt

#### PNEC (STP)

PNEC sewage treatment plant 3 mg/l

## 8.2. Exposure controls

Appropriate engineering controls : Ensure good ventilation of the work station. Avoid creating or spreading dust.

Personal protective equipment : Safety glasses. Dust formation: dust mask. Gloves.

Hand protection : Protective gloves

| Type | Material                          | Permeation   | Thickness (mm) | Penetration                    | Standard   |
|------|-----------------------------------|--|----------------|--------------------------------|------------|
|      | Nitrile impregnated cotton gloves | Please follow the instructions related to the permeability and the penetration time provided by the manufacturer | 0,15           | Refer to supplier/manufacturer | EN ISO 374 |

Eye protection : Wear closed safety glasses. Avoid contact with skin and eyes

Skin and body protection : Wear proper protective equipment

Respiratory protection : In case of inadequate ventilation wear respiratory protection. Use care during processing to minimize generation of dust

Personal protective equipment symbol(s)



Environmental exposure controls : Avoid release to the environment.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state : Solid



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|   |  |
|---|--|
| Appearance                                      | : Powder.  |
| Colour  | : Mixture contains one or more component(s) which have the following colour(s):<br>White to grey Colourless to white Grey White light yellow White to light brown White to light yellow Unpurified: grey |
| Odour   | : odourless  |
| Odour threshold                                 | : No data available  |
| pH  | : < 11.5 Aqueous solution  |
| Relative evaporation rate (butylacetate=1)      | : No data available  |
| Melting point                                   | : > 1250 °C  |
| Freezing point                                  | : Not applicable   |
| Boiling point                                   | : Not applicable   |
| Flash point                                     | : Not applicable   |
| Auto-ignition temperature                       | : Not applicable   |
| Decomposition temperature                       | : No data available  |
| Flammability                                    | : Non flammable.   |
| Vapour pressure                                 | : No data available  |
| Relative vapour density at 20°C                 | : No data available  |
| Relative density                                | : Not applicable   |
| Density   | : 2.75 – 3.2 g/cm <sup>3</sup>   |
| Solubility                                      | : Water: 0.1 – 1.5 g/l @ 20°C  |
| Partition coefficient n-octanol/water (Log Pow) | : No data available  |
| Viscosity, kinematic                            | : Not applicable   |
| Viscosity, dynamic                              | : Not applicable   |
| Explosive properties                            | : None.  |
| Oxidising properties                            | : None.  |
| Explosive limits                                | : Not applicable   |

### 9.2. Other information

|              |                                |
|--------------|--------------------------------|
| VOC content  | : < 3 %                        |
| Bulk density | : 900 – 1300 kg/m <sup>3</sup> |

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Reacts with water.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

### 10.5. Incompatible materials

Acids. ammonium salts. Aluminium.

### 10.6. Hazardous decomposition products

No hazardous decomposition products known.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

|                       |                  |
|-----------------------|------------------|
| Acute toxicity (oral) | : Not classified |
|-----------------------|------------------|



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Acute toxicity (dermal) : Not classified  
Acute toxicity (inhalation) : Not classified

### **lithium-carbonate (554-13-2)**

|                       |   |
|-----------------------|---|
| LD50 oral rat         | 525 mg/kg (Rat, Experimental value, Oral)   |
| LD50 dermal rabbit    | > 3000 mg/kg (Equivalent or similar to OECD 402, 24 h, Rabbit, Male / female, Experimental value, Dermal, 14 day(s))    |
| LC50 Inhalation - Rat | > 2 mg/l (Equivalent or similar to OECD 403, 4 h, Rat, Male / female, Experimental value, Inhalation (dust), 15 day(s)) |

Skin corrosion/irritation : Not classified  
pH: < 11.5 Aqueous solution  
Serious eye damage/irritation : Causes serious eye irritation.  
pH: < 11.5 Aqueous solution  
Respiratory or skin sensitisation : May cause an allergic skin reaction.  
Germ cell mutagenicity : Not classified  
Carcinogenicity : Not classified  
Reproductive toxicity : Not classified  
STOT-single exposure : Not classified

### **Portland cement (65997-15-1)**

|                        |                                   |
|------------------------|-----------------------------------|
| STOT-single exposure   | May cause respiratory irritation. |
| STOT-repeated exposure | : Not classified                  |
| Aspiration hazard      | : Not classified                  |

### **ARDEX K 511 Component A**

|   |  |
|---|--|
| Viscosity, kinematic                                | Not applicable                           |
| Potential adverse human health effects and symptoms | : Irritation: severely irritant to eyes. |

## **SECTION 12: Ecological information**

### **12.1. Toxicity**

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.  
Hazardous to the aquatic environment, short-term (acute) : Not classified  
Hazardous to the aquatic environment, long-term (chronic) : Not classified

### **Portland cement (65997-15-1)**

|                 |                            |
|-----------------|----------------------------|
| LC50 - Fish [1] | > 1000 mg/l (96 h, Pisces) |
|-----------------|----------------------------|

### **lithium-carbonate (554-13-2)**

|                      |   |
|----------------------|---|
| LC50 - Fish [1]      | 30.3 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Oncorhynchus mykiss, Static system, Fresh water, Experimental value, GLP)                           |
| EC50 - Crustacea [1] | 33.2 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP)                     |
| ErC50 algae          | > 400 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Desmodesmus subspicatus, Static system, Fresh water, Experimental value, Nominal concentration) |

### **12.2. Persistence and degradability**

### **ARDEX K 511 Component A**

|                               |   |
|-------------------------------|---|
| Persistence and degradability | Not applicable. Inorganic Particulate Substances. |
| BOD (% of ThOD)               | Not applicable                                    |



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### Portland cement (65997-15-1)

|                               |                                   |
|-------------------------------|-----------------------------------|
| Persistence and degradability | Biodegradability: not applicable. |
| Chemical oxygen demand (COD)  | Not applicable (inorganic)        |
| ThOD                          | Not applicable (inorganic)        |
| BOD (% of ThOD)               | Not applicable                    |

### quartz, conc respirable crystalline silica<1 % (14808-60-7)

|                               |                                   |
|-------------------------------|-----------------------------------|
| Persistence and degradability | Biodegradability: not applicable. |
| Chemical oxygen demand (COD)  | Not applicable (inorganic)        |
| ThOD                          | Not applicable (inorganic)        |

### lithium-carbonate (554-13-2)

|                               |                                   |
|-------------------------------|-----------------------------------|
| Persistence and degradability | Biodegradability: not applicable. |
| Chemical oxygen demand (COD)  | Not applicable (inorganic)        |
| ThOD                          | Not applicable (inorganic)        |

## 12.3. Bioaccumulative potential

### ARDEX K 511 Component A

|                           |                     |
|---------------------------|---------------------|
| Bioaccumulative potential | No bioaccumulation. |
|---------------------------|---------------------|

### Portland cement (65997-15-1)

|                           |                                    |
|---------------------------|------------------------------------|
| Bioaccumulative potential | No bioaccumulation data available. |
|---------------------------|------------------------------------|

### quartz, conc respirable crystalline silica<1 % (14808-60-7)

|                           |                      |
|---------------------------|----------------------|
| Bioaccumulative potential | Not bioaccumulative. |
|---------------------------|----------------------|

### lithium-carbonate (554-13-2)

|                           |                      |
|---------------------------|----------------------|
| Bioaccumulative potential | Not bioaccumulative. |
|---------------------------|----------------------|

## 12.4. Mobility in soil

### ARDEX K 511 Component A

|                  |                                     |
|------------------|-------------------------------------|
| Mobility in soil | No additional information available |
| Ecology - soil   | None.                               |

### Portland cement (65997-15-1)

|                 |   |
|-----------------|---|
| Surface tension | No data available in the literature                   |
| Ecology - soil  | No (test)data on mobility of the substance available. |

### quartz, conc respirable crystalline silica<1 % (14808-60-7)

|                 |                                     |
|-----------------|-------------------------------------|
| Surface tension | No data available in the literature |
| Ecology - soil  | Low potential for mobility in soil. |

### lithium-carbonate (554-13-2)

|                 |   |
|-----------------|---|
| Surface tension | No data available in the literature                   |
| Ecology - soil  | No (test)data on mobility of the substance available. |

## 12.5. Results of PBT and vPvB assessment

PBT : PBT: not relevant – no registration required  
vPvB : vPvB: not relevant – no registration required



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### Component

|   |   |
|---|---|
| Portland cement (65997-15-1)                                  | This substance/mixture does not meet the PBT criteria according to the Regulation on Registration, Evaluation, Authorization and Restriction of Chemicals published in the Official Journal numbered 30105 on June 23, 2017<br>This substance/mixture does not meet the vPvB criteria according to the Regulation on Registration, Evaluation, Authorization and Restriction of Chemicals published in the Official Journal numbered 30105 on June 23, 2017 |
| quartz, conc respirable crystalline silica < 1 % (14808-60-7) | This substance/mixture does not meet the PBT criteria according to the Regulation on Registration, Evaluation, Authorization and Restriction of Chemicals published in the Official Journal numbered 30105 on June 23, 2017<br>This substance/mixture does not meet the vPvB criteria according to the Regulation on Registration, Evaluation, Authorization and Restriction of Chemicals published in the Official Journal numbered 30105 on June 23, 2017 |

### 12.6. Other adverse effects

|                       |                                       |
|-----------------------|---------------------------------------|
| Ozone                 | : Not classified                      |
| Other adverse effects | : No additional information available |

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

|  |  |
|--|--|
| Regional waste regulation                  | : Disposal must be done according to official regulations.   |
| Waste treatment methods                    | : Dispose of contents/container in accordance with licensed collector's sorting instructions.  |
| Product/Packaging disposal recommendations | : Dispose in a safe manner in accordance with local/national regulations. Avoid release to the environment.  |
| Ecological waste information               | : Avoid release to the environment.  |
| European List of Waste (LoW, EC 2000/532)  | : 17 01 01 - concrete<br>10 13 14 - waste concrete and concrete sludge<br>For residues<br>01 04 07* - wastes containing dangerous substances from physical and chemical processing of non-metalliferous minerals |

## SECTION 14: Transport information

### 14.1. UN number

Not regulated for transport

### 14.2. UN proper shipping name

|                             |                  |
|-----------------------------|------------------|
| Proper Shipping Name (ADR)  | : Not applicable |
| Proper Shipping Name (IMDG) | : Not applicable |
| Proper Shipping Name (IATA) | : Not applicable |
| Proper Shipping Name (ADN)  | : Not applicable |
| Proper Shipping Name (RID)  | : Not applicable |

### 14.3. Transport hazard class(es)

**ADR**  
Transport hazard class(es) (ADR) : Not applicable

**IMDG**  
Transport hazard class(es) (IMDG) : Not applicable

**IATA**  
Transport hazard class(es) (IATA) : Not applicable



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### ADN

Transport hazard class(es) (ADN) : Not applicable

### RID

Transport hazard class(es) (RID) : Not applicable

### 14.4. Packing group

Packing group (ADR) : Not applicable  
Packing group (IMDG) : Not applicable  
Packing group (IATA) : Not applicable  
Packing group (ADN) : Not applicable  
Packing group (RID) : Not applicable

### 14.5. Environmental hazards

Dangerous for the environment : No  
Marine pollutant : No  
Other information : No supplementary information available

### 14.6. Special precautions for user

#### Overland transport

No data available

#### Transport by sea

No data available

#### Air transport

No data available

#### Inland waterway transport

Transport regulations (ADN) : Not subject

#### Rail transport

No data available

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

## SECTION 15: Regulatory information

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

#### 15.1.1. National regulations

This product doesn't contain any substances that is controlled or prohibited for use according to the Regulation on Ozone Depleting Substances published in the Official Journal numbered 30031 on April 7, 2017.

Contains no substances with KKDIK Annex 17 restrictions

VOC content : < 3 %

### 15.2. Chemical safety assessment

No additional information available

## SECTION 16: Other information

### Full text of H- and EUH-statements

|                     |   |
|---------------------|---|
| Acute Tox. 4 (Oral) | Acute toxicity (oral), Category 4             |
| Eye Dam. 1          | Serious eye damage/eye irritation, Category 1 |



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### Full text of H- and EUH-statements

|               |  |
|---------------|--|
| Eye Irrit. 2  | Serious eye damage/eye irritation, Category 2  |
| Skin Irrit. 2 | Skin corrosion/irritation, Category 2  |
| Skin Sens. 1  | Skin sensitisation, Category 1   |
| STOT SE 3     | Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation |
| H302          | Harmful if swallowed.  |
| H315          | Causes skin irritation.  |
| H317          | May cause an allergic skin reaction.   |
| H318          | Causes serious eye damage.   |
| H319          | Causes serious eye irritation.   |
| H335          | May cause respiratory irritation.  |

### Safety Data Sheet author's

|                         |                                    |
|-------------------------|------------------------------------|
| Name                    | Gökhan Ardıç                       |
| Certificate number      | Lonca KDU 34 / 2020.08             |
| Certificate valid until | 22/09/2025                         |
| Contact information     | sds@chemleg.com   +90 216 706 1307 |

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.