



# ARDEX 4

## Safety Data Sheet

In accordance with the Regulation on Safety Data Sheets Regarding Hazardous Substances and Mixtures published in the Official Journal numbered 29204 on December 13, 2014

Issue date: 13/08/2021

Version: 1.0

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

#### 1.1. Product identifier

Product form : Mixture  
Product name : ARDEX 4  
Product code : 40051

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

Main use category : Professional use  
Use of the substance/mixture : Waterproofing  
Function or use category : Construction materials

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

##### Manufacturer

ARDEX Yapı Malzemeleri Limited Şirketi  
İstanbul Deri Organize Sanayi Bölgesi  
Desen Sok. No:14/A C1 Özel Parsel  
Tuzla/İstanbul - Türkiye  
T +90 (216) 394 01 14 - F + 90 (216) 394 03 77  
[info@ardex.com.tr](mailto:info@ardex.com.tr) - [www.ardex.com.tr](http://www.ardex.com.tr)

#### 1.4. Emergency telephone number

Emergency number : 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.**

Skin sensitisation, Category 1 H317  
Hazardous to the aquatic environment — Chronic Hazard, Category 3 H412

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

Adverse physicochemical, human health and environmental effects : To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

#### 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

Hazard statements (SEA) : H317 - May cause an allergic skin reaction.  
H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements (SEA) : P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.  
P272 - Contaminated work clothing should not be allowed out of the workplace.  
P273 - Avoid release to the environment.  
P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
P302+P352 - IF ON SKIN: Wash with plenty of water/...  
P321 - Specific treatment (see on this label).  
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.  
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Extra phrases : Dispose of contents/container in accordance with regional/national/international/local regulations.



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### 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.  |
|---|---|-----|---|
| mixture of: 5-chloro-2-methyl-2H-isothiazol-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1) | (CAS-No.) 55965-84-9<br>(EC Index-No.) 613-167-00-5 | < 1 | Acute Tox. 2 (Inhalation), H330<br>Acute Tox. 2 (Dermal), H310<br>Acute Tox. 3 (Oral), H301<br>Skin Corr. 1C, H314<br>Eye Dam. 1, H318<br>Skin Sens. 1A, H317<br>Aquatic Acute 1, H400 (M=100)<br>Aquatic Chronic 1, H410 (M=100) |

#### Specific concentration limits:

| Name  | Product identifier                                  | Specific concentration limits   |
|---|---|---|
| mixture of: 5-chloro-2-methyl-2H-isothiazol-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1) | (CAS-No.) 55965-84-9<br>(EC Index-No.) 613-167-00-5 | ( 0.0015 ≤ C ≤ 100) Skin Sens. 1A, H317<br>( 0.06 ≤ C < 0.6) Eye Irrit. 2, H319<br>( 0.06 ≤ C < 0.6) Skin Irrit. 2, H315<br>( 0.6 ≤ C ≤ 100) Eye Dam. 1, H318<br>( 0.6 ≤ C ≤ 100) Skin Corr. 1C, H314 |

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

- First-aid measures general : Remove dirty clothes.
- 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.
- First-aid measures after eye contact : Rinse eyes with water as a precaution.
- First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.

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

- Symptoms/effects : If symptoms persist call a doctor.

### 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 : Water spray. Dry powder. Foam. Carbon dioxide.
- Unsuitable extinguishing media : Do not use a heavy water stream.

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

- Fire hazard : Not dangerous.
- Explosion hazard : None.
- Reactivity in case of fire : Product is not explosive.
- Hazardous decomposition products in case of fire : None.

### 5.3. Advice for firefighters

- Precautionary measures fire : Evacuate area.
- Firefighting instructions : Contain the extinguishing fluids by bunding.
- Protection during firefighting : Do not attempt to take action without suitable protective equipment.



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### 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 : Concerning personal protective equipment to use, see section 8.

Emergency procedures : Avoid contact with skin and eyes.

##### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

#### 6.2. Environmental precautions

Avoid release to the environment.

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

For containment : Collect spillage.

Methods for cleaning up : Take up liquid spill into absorbent material.

Other information : Place in a suitable container for disposal in accordance with the waste regulations (see Section 13).

#### 6.4. Reference to other sections

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

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Additional hazards when processed : See Heading 8.

Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

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

Storage conditions : Store in original container. Protect from sunlight.

Storage area : Keep out of frost.

#### 7.3. Specific end use(s)

No additional information available

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

#### 8.2. Exposure controls

Appropriate engineering controls : Ensure good ventilation of the work station.

Hand protection : Protective gloves

Eye protection : Safety glasses

Skin and body protection : Wear suitable protective clothing

Respiratory protection : No specific measures are necessary

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 : Liquid

Appearance : Liquid.



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|   |   |
|---|---|
| Colour  | : Various   |
| Odour   | : There may be no odour warning properties, odour is subjective and inadequate to warn of overexposure.<br>Mixture contains one or more component(s) which have the following odour:<br>Odourless |
| Odour threshold                                 | : No data available   |
| pH  | : 5 – 8.5   |
| Relative evaporation rate (butylacetate=1)      | : No data available   |
| Melting point                                   | : Not applicable  |
| Freezing point                                  | : No data available   |
| Boiling point                                   | : > 100 °C  |
| Flash point                                     | : No data available   |
| Auto-ignition temperature                       | : No data available   |
| Decomposition temperature                       | : No data available   |
| Flammability (solid, gas)                       | : Not applicable  |
| Vapour pressure                                 | : 2.3 hPa   |
| Relative vapour density at 20 °C                | : No data available   |
| Relative density                                | : No data available   |
| Density   | : 1 – 1.3 g/cm <sup>3</sup>   |
| Solubility                                      | : Forms emulsion in presence of water.  |
| Partition coefficient n-octanol/water (Log Pow) | : No data available   |
| Viscosity, kinematic                            | : No data available   |
| Viscosity, dynamic                              | : 100 – 3000 mPa·s  |
| Explosive properties                            | : No data available   |
| Oxidising properties                            | : No data available   |
| Explosive limits                                | : No data available   |

### 9.2. Other information

VOC content : < 3 % VOC - Swiss ordinance

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

None.

### 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

None.

### 10.6. Hazardous decomposition products

No hazardous decomposition products known.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Not classified

| mixture of: 5-chloro-2-methyl-2H-isothiazol-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) (55965-84-9) |  |
|---|--|
| LD50 oral rat   | 66 mg/kg bodyweight (OECD 401: Acute Oral Toxicity, Rat, Male / female, Experimental value, Calculated by reference to active substance, Oral, 14 day(s))                      |
| LD50 dermal rat   | > 141 mg/kg bodyweight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Experimental value, Dermal, 14 day(s))  |
| LC50 Inhalation - Rat   | 0.17 mg/l air (OECD 403: Acute Inhalation Toxicity, 4 h, Rat, Male / female, Experimental value, Calculated by reference to active substance, Inhalation (aerosol), 14 day(s)) |



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|   |  |
|---|--|
| Skin corrosion/irritation                           | : Not classified<br>pH: 5 – 8.5        |
| Serious eye damage/irritation                       | : Not classified<br>pH: 5 – 8.5        |
| 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                       |
| STOT-repeated exposure                              | : Not classified                       |
| Aspiration hazard                                   | : Not classified                       |
| Potential adverse human health effects and symptoms | : No data available.                   |

### 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)                            | : Harmful to aquatic life with long lasting effects.  |
| Classification procedure (Hazardous to the aquatic environment, long-term (chronic)) | : Calculation method  |

**mixture of: 5-chloro-2-methyl-2H-isothiazol-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1) (55965-84-9)**

|                      |   |
|----------------------|---|
| EC50 - Crustacea [1] | 0.007 mg/l (48 h, Acartia tonsa, Salt water, Experimental value, GLP) |
|----------------------|---|

#### 12.2. Persistence and degradability

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|                               |                 |
|-------------------------------|-----------------|
| Persistence and degradability | Not applicable. |
|-------------------------------|-----------------|

**mixture of: 5-chloro-2-methyl-2H-isothiazol-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1) (55965-84-9)**

|                               |                                     |
|-------------------------------|-------------------------------------|
| Persistence and degradability | Not readily biodegradable in water. |
|-------------------------------|-------------------------------------|

#### 12.3. Bioaccumulative potential

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

**mixture of: 5-chloro-2-methyl-2H-isothiazol-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1) (55965-84-9)**

|   |  |
|---|--|
| BCF - Fish [1]                                  | 41 – 54 (OECD 305: Bioconcentration: Flow-Through Fish Test, 28 day(s), Lepomis macrochirus, Flow-through system, Fresh water, Experimental value, Fresh weight) |
| Partition coefficient n-octanol/water (Log Pow) | 0.75 (Experimental value, OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method, 24 °C)  |
| Bioaccumulative potential                       | Low potential for bioaccumulation (BCF < 500).   |

#### 12.4. Mobility in soil

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|                  |                                     |
|------------------|-------------------------------------|
| Mobility in soil | No additional information available |
|------------------|-------------------------------------|

|                |                           |
|----------------|---------------------------|
| Ecology - soil | No information available. |
|----------------|---------------------------|

**mixture of: 5-chloro-2-methyl-2H-isothiazol-3-one [EC no. 247-500-7] and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1) (55965-84-9)**

|  |                                      |
|--|--------------------------------------|
| Surface tension  | No data available in the literature  |
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 0.81 – 1 (log Koc, Calculated value) |
| Ecology - soil   | Highly mobile in soil.               |

#### 12.5. Results of PBT and vPvB assessment

|     |  |
|-----|--|
| PBT | : PBT: not relevant – no registration required |
|-----|--|



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vPvB : vPvB: not relevant – no registration required

### 12.6. Other adverse effects

Ozone : Not classified  
 Other adverse effects : No additional information available  
 Other information : Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.  
 Sewage disposal recommendations : Do not put down the drain. Must undergo physico-chemical treatment prior to disposal.

## SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

| ADR                                     | IMDG  | IATA                               | ADN                                | RID                                |
|---|---|------------------------------------|------------------------------------|------------------------------------|
| <b>14.1. UN number</b>                  |   |                                    |                                    |                                    |
| Not regulated for transport             |   |                                    |                                    |                                    |
| <b>14.2. UN proper shipping name</b>    |   |                                    |                                    |                                    |
| Not applicable                          | Not applicable  | Not applicable                     | Not applicable                     | Not applicable                     |
| <b>14.3. Transport hazard class(es)</b> |   |                                    |                                    |                                    |
| Not applicable                          | Not applicable  | Not applicable                     | Not applicable                     | Not applicable                     |
| Not applicable                          | Not applicable  | Not applicable                     | Not applicable                     | Not applicable                     |
| <b>14.4. Packing group</b>              |   |                                    |                                    |                                    |
| Not applicable                          | Not applicable  | Not applicable                     | Not applicable                     | Not applicable                     |
| <b>14.5. Environmental hazards</b>      |   |                                    |                                    |                                    |
| Dangerous for the environment : No      | Dangerous for the environment : No<br>Marine pollutant : No | Dangerous for the environment : No | Dangerous for the environment : No | Dangerous for the environment : No |
| 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

No data available

#### - 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.

## SECTION 16: Other information



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

|                           |   |
|---------------------------|---|
| Acute Tox. 2 (Dermal)     | Acute toxicity (dermal), Category 2                               |
| Acute Tox. 2 (Inhalation) | Acute toxicity (inhal.), Category 2                               |
| Acute Tox. 3 (Oral)       | Acute toxicity (oral), Category 3                                 |
| Aquatic Acute 1           | Hazardous to the aquatic environment — Acute Hazard, Category 1   |
| Aquatic Chronic 1         | Hazardous to the aquatic environment — Chronic Hazard, Category 1 |
| Aquatic Chronic 3         | Hazardous to the aquatic environment — Chronic Hazard, Category 3 |
| Eye Dam. 1                | Serious eye damage/eye irritation, Category 1                     |
| Eye Irrit. 2              | Serious eye damage/eye irritation, Category 2                     |
| Skin Corr. 1C             | Skin corrosion/irritation, Category 1C                            |
| Skin Irrit. 2             | Skin corrosion/irritation, Category 2                             |
| Skin Sens. 1              | Skin sensitisation, Category 1                                    |
| Skin Sens. 1A             | Skin sensitisation, category 1A                                   |
| H301                      | Toxic if swallowed.   |
| H310                      | Fatal in contact with skin.                                       |
| H314                      | Causes severe skin burns and eye damage.                          |
| H317                      | May cause an allergic skin reaction.                              |
| H318                      | Causes serious eye damage.  |
| H330                      | Fatal if inhaled.   |
| H400                      | Very toxic to aquatic life.                                       |
| H410                      | Very toxic to aquatic life with long lasting effects.             |
| H412                      | Harmful to aquatic life with long lasting effects.                |

### 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.*