

Printing date:  
09.06.2015

Revision: 16.04.2015

**Trade name: Antikorozin E - B component**

## 1. Identification of the substance/mixture and of the company/undertaking

### 1.1 Product Identifier

- **Trade name:** Antikorozin E - B component

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

- **Use of the substance/mixture:** Two-component, anti-corrosive, epoxy resin-based coating for protection of steel surfaces

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

- **Manufacturer/Supplier:** ADING AD, Novoselski pat (1409 Str.) No. 11  
1060 Skopje, Republic of Macedonia  
++389 2 2034-800  
+389 2 2034-821, 2034-822  
+389 2 2034-850, 2034-853

### 1.4 Emergency telephone number

- **Emergency telephone number:** Toxicology Information Centre  
+389 2 3147-635

## 2. Hazards identification

### 2.1 Classification of the substance or mixture

**In accordance with the Rulebook on Classification, Labelling and Packaging of Chemicals and Certain Products in line with UN's Globally Harmonised System of Classification and Labelling of Chemicals (Official Gazette of the Republic of Macedonia no. 145/10, 53/11 and 164/13)**

**2.1.1 Classification:** According to Regulation 1272/2008 (CLP)



GHS07

H315- Causes skin irritation (Hazard category 2)  
H317- May cause an allergic skin reaction (Hazard category 1)



GHS02

H226- Flammable liquid and vapour (Hazard category 3)

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GHS05

H318- Causes serious eye damage (Hazard category 1)

## 2.2. Label elements

- Hazard pictogram:**



GHS07



GHS05



GHS02

- Signal word:**

Danger

- H- Hazard statements:**

H226- Flammable liquid and vapour  
H317- May cause an allergic skin reaction  
H315- Causes skin irritation  
H318- Causes serious eye damage

- P- Precautionary statements:**

P101- If medical advice is needed, have product container or label at hand  
P102- Keep out of reach of children  
P103- Read label before use  
P210- Keep away from heat/sparks/open flames/hot surfaces. — No smoking  
P241- Use explosion-proof electrical/ventilating/lighting/.../equipment.  
P305+P351+P338 — IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P303+P361+P353 — IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P310- Immediately call a POISON CENTER or doctor/physician.  
P501- Dispose of contents/container as hazardous waste.

- Classification:**

According to Directive 67/548/EEC

- R- Risk statements:**

R20/21- Harmful by inhalation and in contact with skin.  
R10- Flammable  
R36/38- Irritating to eyes and skin

- S- Safety statements:**

S2- Keep out of the reach of children  
S27/28- After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water.  
S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S16- Keep away from sources of ignition. No smoking.  
S60- This material and its container must be disposed of as hazardous waste.  
S45- In case of accident or if you feel unwell seek medical advice immediately (show the label where possible).  
S46- If swallowed, seek medical advice immediately and show this container or label.

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**2.3 Other hazards**

**PBT and vPvB results:**

PBT: Not applicable

vPvB: Not applicable










### 3. Composition/information on ingredients

**3.1 Substances**

Not applicable

**3.2 Mixtures**

- **Chemical characterization: Hardener for epoxy resin, modified phenalkamine**
- **Dangerous components:**

<p>CAS: 1477-55-0 EINECS: 216-032-5</p>	<p><i>m</i>-phenylenebis (methylamine)</p>  <p>GHS07 Acute toxicity (Hazard category 4), H302; Harmful if inhaled (Hazard category 4), H332; Skin sensitivity (Hazard category 1), H317; Chronic toxicity for water organisms (Hazard category 3), H412</p>  <p>Xn R 20/22, Xi R43, R52/53</p>  <p>GHS05 Corrosive to skin 1B H314</p>  <p>C, R34</p>	<p>2-5%</p>
<p>CAS: 1330-20-7 EINECS: 215-535-7</p>	<p>Xylene</p>  <p>GHS07 Skin irritation (Hazard category 2), H315; Harmful in contact with skin (Hazard category 4), H312; Harmful if inhaled (Hazard category 4), H332</p>  <p>Xi, Xn R38, R20/21</p>  <p>GHS02 Flammable liquid and vapour (Hazard category 3), H226,</p>  <p>R10,</p>	<p>18-21%</p>
<p>CAS: 90-72-2 EINECS: 202-013-9</p>	<p>2, 4, 6-tris(dimethylaminomethyl)phenol</p>  <p>GHS07 Skin irritation (Hazard category 2), H315; Acute toxicity (Hazard category 4), H302; Eye irritation (Hazard category 2), H319</p>	<p>~1,5%</p>

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## 4. First aid measures

### 4.1 Description of first aid measures

- **General information:** Immediately remove contaminated clothing and call a physician if symptoms of poisoning develop.
- **After inhalation:** Remove the person to fresh air. If the person stops breathing, give mouth-to-mouth resuscitation. If unconscious, place in a position comfortable for breathing and get medical attention.
- **After skin contact:** Wash immediately with plenty of water and soap. Remove contaminated clothing. Get medical attention if irritation persists after washing.
- **After eye contact:** Rinse eyes under running water for several minutes with the eyelids held wide open. Remove contact lenses, if present. If symptoms persist, seek medical advice.
- **After swallowing:** Rinse mouth continuously with water. If irritation persists or recurs, seek medical attention.

### 4.2 Information for doctor

- **Most important symptoms and effects, both acute and delayed** No relevant additional information available.

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

- **Indication of any immediate medical attention and special treatment needed** No relevant additional information available.

## 5. Firefighting measures

### 5.1 Extinguishing media

- **Suitable extinguishing media:** Carbon dioxide, dry powder or water spray for fighting larger flames.

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

- **Special hazards arising from the substance or mixture:**

Do not extinguish with water as it may lead to spreading the fire.

### 5.3 Advice for firefighters

- **Protective equipment:** Wear suitable protective clothing and breathing apparatus.

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## 6. Accidental release measures

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

- **Personal precautions:** Wear suitable protective clothing and keep unprotected persons away. Ensure appropriate ventilation and avoid breathing vapours.

### 6.2 Environmental precautions

- **Environmental precautions:** Do not allow the material to enter soil/sewage system, surface water. Inform the competent authorities in case of spillage into the sewage system.

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

- **Methods for cleaning up:** The contaminated material must be disposed of according to the relevant rules on disposal. Absorb spillage with suitable absorbent material (diatomaceous earth, sand, acid-binding agents, etc.) Ensure appropriate ventilation in the room.

## 7. Handling and storage

### 7.1 Precautions for safe handling

- **Precautions for safe handling:** Ensure appropriate ventilation in the area where this material is handled and avoid contact of the material with skin and eyes.
- **Precautions against fire and explosion:**

Keep away from fire, sparks and other heated surfaces as this material is flammable.

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

- **Conditions for storerooms and vessels:** Store in a dry, well-ventilated area, in well-sealed containers suitable for storage.

### 7.3 Specific end use(s)

- **Specific storage conditions** No relevant additional information available.

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## **8. Exposure controls/personal protection**

### **8.1 Control parameters**

- **Ingredients with limit values that require monitoring at the workplace:**

Xylene

Limit value concentration 15 min. for 100ppm  
- 221 mg/m<sup>3</sup>

Limit value concentration 8h for 50 ppm- 442 mg/m<sup>3</sup>

- **Additional information:**

No additional information.

### **8.2 Exposure controls and personal protection**

- **Exposure controls** Ensure ventilation in the area of use. Avoid contact with skin and eyes. Remove contaminated clothing.
- **Personal protective equipment**
- **Respiratory protection:** Use appropriate respiratory mask in case of prolonged exposure.
- **Hand protection:** Protective gloves. It is recommended to use gloves made of multi-layer material (PE/EVON)
- **Eye protection:** Safety glasses.
- **Skin protection:** Wear suitable protective clothing.

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## 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

- **Appearance:**
  - Form:** Liquid
  - Colour:** Honey-like
- **Odour** Specific
- **Odour threshold** Amine-like
- **pH at t=25°C** 10.5
- **Melting point** No information available.
- **Boiling point** > 66°C
- **Flash point** 32 °C
- **Evaporation rate** No information available.
- **Flammability (solid, gas)** No information available.
- **Upper/lower flammability or explosive limits** No information available.
- **Vapour pressure** No information available.
- **Vapour density** No information available.
- **Relative density** 0.96-1.02 g/cm<sup>3</sup>
- **Solubility** Insoluble in water
- **Partition coefficient: n-octanol/water at 25°C** No information available.
- **Auto-ignition temperature** No information available.
- **Decomposition temperature** No information available.
- **Viscosity** 4500 cps
- **Explosive properties** No information available.
- **Oxidising properties** No information available.

## 10. Stability and reactivity

### 10.1 Reactivity

- No information available.

### 10.2 Chemical stability:

- Stable under normal temperature and pressure.

### 10.3 Possibility of hazardous reactions:

- No thermal decomposition if used according to specifications.

### 10.4 Conditions to avoid:

- No relevant information available.

### 10.5 Incompatible materials:

- No relevant information available.

### 10.6 Hazardous decomposition products:

- No additional information.

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## 11. Toxicological information

### 11.1 Information on toxicological effects

- **Acute toxicity:** /
- **LD/LC50 values relevant for classification:**

#### Xylene 1330-20-7

Oral	LD50-	4300 mg/kg (rat)
Dermal	LD50-	2000 mg/kg (rabbit)

#### m-phenylenebis (methylamine) 1477-55-0

Oral	LD50-	1040 mg/kg (rat)
Inhalation -	LC50/4h	2.4 mg/l (rat)

- **Primary irritant effect**
- **on the skin** Corrosive effect on skin.
- **on the eye** Causes strong corrosive effect.
- **Sensitization:** May cause sensitisation by skin contact.

## 12. Ecological information

### 12.1 Toxicity:

#### 12.1.1 Aquatic toxicity:

- Toxic.  
No relevant information available.

#### 12.2 Persistence and degradability:

- Not readily biodegradable.

#### 12.3 Bioaccumulative potential:

- No relevant information available.

#### 12.4 Mobility in soil:

- No relevant information available.

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

- No relevant information available.

#### 12.6 Other adverse effects:

- No relevant information available.

## 13. Disposal considerations

### 13.1 Waste treatment methods

Product waste should be treated in accordance with the Law on Waste Management (Official Gazette of the Republic of Macedonia no. 100/2005, 2/2011, 123/2012, 147/2013), whereas used packaging should be treated in accordance with the Law on Management of Packaging and Packaging Waste (Official Gazette of the Republic of Macedonia no. 161/2001, 136/2011, 39/2012)

- **Recommendation:** May not be disposed of together with household waste. Do not allow the material to enter the sewage system.
- **Uncleaned packaging**
- **Recommendation:** Empty the packaging carefully. The packaging of this material should be treated as hazardous waste in line with local regulations.



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**Trade name: Antikorozin E - B component****14. Transport information****14.1 UN number**

- ADR, ADN, IMDG, IATA- 1866

**14.2 UN proper shipping name**

- ADR, ADN, IMDG, IATA- Environmentally hazardous substance

**14.3 Transport hazard class**

- ADR, ADN, IMDG, IATA-  
3-Miscellaneous hazardous materials

**14.4 Packing group**

- ADR, ADN, IMDG, IATA-  
III

**14.5 Environmental hazards**

- Hazardous
- ADR
- IATA

**14.6 Special precautions for user**

- Kempler code-33
- Warning – hazardous material

**14.7 Transport in bulk**

- /

**15. Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

Law on Health and Safety at Work (Official Gazette of the Republic of Macedonia no. 92/2007, 137/2013, 164/2013, 158/2014); Law on Chemicals (Official Gazette of the Republic of Macedonia no. 145/2010, 53/2011, 164/2013); Law on Environment (Official Gazette of the Republic of Macedonia no. 53/2005, 24/2007, 93/2013). Rulebook amending the Rulebook on the Form and Contents of the Application Form for Obtaining Permit for Import, Export and Transport of Toxic Chemicals and Their Precursors for Purposes Not Prohibited (Official Gazette of the Republic of Macedonia no. 291/2014); Rulebook on Specific Requirements for the Legal Persons Trading in Dangerous Chemicals (Official Gazette of the Republic of Macedonia no. 132/2008); Rulebook on Labelling and Packaging of Dangerous Chemicals (Official Gazette of the Republic of Macedonia no. 85/2009); Rulebook on Hazardous Substances, Threshold Limit Values of Hazardous Substances and Criteria or Properties for Classifying Substances as Hazardous (Official Gazette of the Republic of Macedonia no. 25/2010); List of Prohibitions and Restrictions in the Use of Chemicals (Official Gazette of the Republic of Macedonia no. 57/2011); Rulebook on Chemical Safety Assessment and Contents of the Chemical Safety Report (Official Gazette of the Republic of Macedonia no. 82/2011); List of Polluting Materials and Substances (Official Gazette of the Republic of Macedonia no. 122/2011); Law on Chemicals (Official Gazette of the Republic of Macedonia no. 31/2014); Rulebook amending the Rulebook on the Form and Contents of the Application Form for Obtaining Permit for Import, Export and Transit of Toxic Chemicals and Their Precursors for Purposes Not Prohibited (Official Gazette of the Republic of Macedonia no. 192/2014).

**15.2 Chemical Safety Assessment**

No Chemical Safety Assessment has been carried out for this substance/mixture.

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## 16. Other information

Reason for issue: New format

This Safety Data Sheet summarises to the best of our knowledge the health and safety hazard information on the product. Each user should read this Safety Data Sheet and consider the information in the context of how the product should be handled and used, as well as how it should be stored, transported and disposed of. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company. This information relates only to the specific product and may not be valid if the product is used in combination with any other material. All the information contained in this Safety Data Sheet is true and up-to-date.

### Relevant labels

#### H-statements

- H226- Flammable liquid and vapour
- H317- May cause an allergic skin reaction
- H315- Causes skin irritation
- H318- Causes serious eye damage

#### P-statements

- P101- If medical advice is needed, have product container or label at hand
- P102- Keep out of reach of children
- P103- Read label before use
- P210- Keep away from heat/sparks/open flames/hot surfaces. — No smoking
- P241- Use explosion-proof electrical/ventilating/lighting/.../equipment.
- P305+P351+P338 — IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P303+P361+P353 — IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P310- Immediately call a POISON CENTER or doctor/physician.
- P501- Dispose of contents/container as hazardous waste.

#### R-statements

- R20/21- Harmful by inhalation and in contact with skin.
- R10- Flammable
- R36/38- Irritating to eyes and skin

#### S-statements

- S2- Keep out of the reach of children
- S27/28- After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water.
- S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- S16- Keep away from sources of ignition. No smoking.
- S60- This material and its container must be disposed of as hazardous waste.
- S45- In case of accident or if you feel unwell seek medical advice immediately (show the label where possible).
- S46- If swallowed, seek medical advice immediately and show this container or label.